

# Package ‘Devore7’

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**Version** 0.7.6

**Title** Data sets from Devore's ``Prob and Stat for Eng (7th ed)''

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**Author** Original by Jay L. Devore, modifications by Douglas Bates  
<bates@stat.wisc.edu>, modifications for 7th edition by John Verzani.

**Description** Data sets and sample analyses from Jay L. Devore (2008),  
``Probability and Statistics for Engineering and the Sciences  
(7th ed)'', Thomson.

**Depends** R(>= 2.4.0), MASS, lattice

**LazyData** TRUE

**License** GPL (>= 2)

**NeedsCompilation** no

**Repository** CRAN

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---

`ex01.11`*R Data set: ex01.11*

---

**Description**

The `ex01.11` data frame has 40 rows and 1 column.

**Usage**

```
data(ex01.11)
```

**Format**

A data frame with 40 observations on the following variable.

Scores a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.11)
str(ex01.11)
```

---

`ex01.12`*R Data set: ex01.12*

---

**Description**

The `ex01.12` data frame has 36 rows and 1 column.

**Usage**

```
data(ex01.12)
```

**Format**

A data frame with 36 observations on the following variable.

SpecGrav a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.12)
str(ex01.12)
```

---

ex01.13

*R Data set: ex01.13*

---

**Description**

The ex01.13 data frame has 153 rows and 1 column.

**Usage**

```
data(ex01.13)
```

**Format**

A data frame with 153 observations on the following variable.

strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.13)
str(ex01.13)
```

---

ex01.14

*R Data set: ex01.14*

---

**Description**

The ex01.14 data frame has 129 rows and 1 column.

**Usage**

```
data(ex01.14)
```

**Format**

A data frame with 129 observations on the following variable.

Rate a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.14)
str(ex01.14)
```

---

ex01.15

*R Data set: ex01.15*

---

**Description**

The ex01.15 data frame has 37 rows and 2 columns.

**Usage**

```
data(ex01.15)
```

**Format**

A data frame with 37 observations on the following 2 variables.

Score a numeric vector

Type a factor with levels Creamy Crunchy

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.15)
str(ex01.15)
```

---

ex01.17

*R Data set: ex01.17*

---

**Description**

The ex01.17 data frame has 60 rows and 1 column.

**Usage**

```
data(ex01.17)
```

**Format**

A data frame with 60 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.17)
str(ex01.17)
```

---

`ex01.18`*R Data set: ex01.18*

---

**Description**

The `ex01.18` data frame has 18 rows and 2 columns.

**Usage**

```
data(ex01.18)
```

**Format**

A data frame with 18 observations on the following 2 variables.

Number.of.papers a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.18)
str(ex01.18)
```

---

`ex01.19`*R Data set: ex01.19*

---

**Description**

The `ex01.19` data frame has 15 rows and 2 columns.

**Usage**

```
data(ex01.19)
```

**Format**

A data frame with 15 observations on the following 2 variables.

Number.of.particles a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.19)
str(ex01.19)
```

---

ex01.20

*R Data set: ex01.20*

---

**Description**

The ex01.20 data frame has 47 rows and 1 column.

**Usage**

```
data(ex01.20)
```

**Format**

A data frame with 47 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.20)
str(ex01.20)
```

---

ex01.21

*R Data set: ex01.21*

---

**Description**

The ex01.21 data frame has 47 rows and 2 columns.

**Usage**

```
data(ex01.21)
```

**Format**

A data frame with 47 observations on the following 2 variables.

y a numeric vector

z a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.21)
str(ex01.21)
```

---

`ex01.23`*R Data set: ex01.23*

---

**Description**

The `ex01.23` data frame has 100 rows and 1 column.

**Usage**

```
data(ex01.23)
```

**Format**

A data frame with 100 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.23)
str(ex01.23)
```

---

`ex01.24`*R Data set: ex01.24*

---

**Description**

The `ex01.24` data frame has 100 rows and 1 column.

**Usage**

```
data(ex01.24)
```

**Format**

A data frame with 100 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.24)
str(ex01.24)
```

---

ex01.25

*R Data set: ex01.25*

---

**Description**

The ex01.25 data frame has 40 rows and 2 columns.

**Usage**

```
data(ex01.25)
```

**Format**

A data frame with 40 observations on the following 2 variables.

IDT a numeric vector

log10.IDT a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.25)
str(ex01.25)
```

---

`ex01.27`*R Data set: ex01.27*

---

**Description**

The `ex01.27` data frame has 50 rows and 1 column.

**Usage**

```
data(ex01.27)
```

**Format**

A data frame with 50 observations on the following variable.

`lifetime` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.27)
str(ex01.27)
```

---

`ex01.28`*R Data set: ex01.28*

---

**Description**

The `ex01.28` data frame has 60 rows and 1 column.

**Usage**

```
data(ex01.28)
```

**Format**

A data frame with 60 observations on the following variable.

`radiation` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.28)
str(ex01.28)
```

---

ex01.29

*R Data set: ex01.29*

---

**Description**

The ex01.29 data frame has 61 rows and 1 column.

**Usage**

```
data(ex01.29)
```

**Format**

A data frame with 61 observations on the following variable.

C1 a factor with levels B C C5 F J M N O

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.29)
str(ex01.29)
```

---

`ex01.32`*R Data set: ex01.32*

---

**Description**

The `ex01.32` data frame has 14 rows and 2 columns.

**Usage**

```
data(ex01.32)
```

**Format**

A data frame with 14 observations on the following 2 variables.

Value a numeric vector

Cumulative a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.32)
str(ex01.32)
```

---

`ex01.33`*R Data set: ex01.33*

---

**Description**

The `ex01.33` data frame has 14 rows and 1 column.

**Usage**

```
data(ex01.33)
```

**Format**

A data frame with 14 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.33)
str(ex01.33)
```

---

ex01.34

*R Data set: ex01.34*

---

**Description**

The ex01.34 data frame has 11 rows and 1 column.

**Usage**

```
data(ex01.34)
```

**Format**

A data frame with 11 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.34)
str(ex01.34)
```

---

`ex01.35`*R Data set: ex01.35*

---

**Description**

The `ex01.35` data frame has 8 rows and 1 column.

**Usage**

```
data(ex01.35)
```

**Format**

A data frame with 8 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.35)  
str(ex01.35)
```

---

`ex01.36`*R Data set: ex01.36*

---

**Description**

The `ex01.36` data frame has 26 rows and 1 column.

**Usage**

```
data(ex01.36)
```

**Format**

A data frame with 26 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.36)
str(ex01.36)
```

---

ex01.37

*R Data set: ex01.37*

---

**Description**

The ex01.37 data frame has 10 rows and 1 column.

**Usage**

```
data(ex01.37)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.37)
str(ex01.37)
```

---

`ex01.38`*R Data set: ex01.38*

---

**Description**

The `ex01.38` data frame has 9 rows and 1 column.

**Usage**

```
data(ex01.38)
```

**Format**

A data frame with 9 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.38)
str(ex01.38)
```

---

`ex01.39`*R Data set: ex01.39*

---

**Description**

The `ex01.39` data frame has 16 rows and 1 column.

**Usage**

```
data(ex01.39)
```

**Format**

A data frame with 16 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.39)
str(ex01.39)
```

---

ex01.43

*R Data set: ex01.43*

---

**Description**

The ex01.43 data frame has 10 rows and 1 column.

**Usage**

```
data(ex01.43)
```

**Format**

A data frame with 10 observations on the following variable.

Lifetime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.43)
str(ex01.43)
```

---

`ex01.44`*R Data set: ex01.44*

---

**Description**

The `ex01.44` data frame has 10 rows and 1 column.

**Usage**

```
data(ex01.44)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.44)
str(ex01.44)
```

---

`ex01.45`*R Data set: ex01.45*

---

**Description**

The `ex01.45` data frame has 5 rows and 1 column.

**Usage**

```
data(ex01.45)
```

**Format**

A data frame with 5 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.45)
str(ex01.45)
```

---

ex01.46

*R Data set: ex01.46*

---

**Description**

The ex01.46 data frame has 5 rows and 1 column.

**Usage**

```
data(ex01.46)
```

**Format**

A data frame with 5 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.46)
str(ex01.46)
```

---

`ex01.49`*R Data set: ex01.49*

---

**Description**

The `ex01.49` data frame has 17 rows and 1 column.

**Usage**

```
data(ex01.49)
```

**Format**

A data frame with 17 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.49)
str(ex01.49)
```

---

`ex01.50`*R Data set: ex01.50*

---

**Description**

The `ex01.50` data frame has 27 rows and 1 column.

**Usage**

```
data(ex01.50)
```

**Format**

A data frame with 27 observations on the following variable.

awards a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.50)
str(ex01.50)
```

---

ex01.51

*R Data set: ex01.51*

---

**Description**

The ex01.51 data frame has 19 rows and 1 column.

**Usage**

```
data(ex01.51)
```

**Format**

A data frame with 19 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.51)
str(ex01.51)
```

---

`ex01.54`*R Data set: ex01.54*

---

**Description**

The `ex01.54` data frame has 11 rows and 1 column.

**Usage**

```
data(ex01.54)
```

**Format**

A data frame with 11 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.54)
str(ex01.54)
```

---

`ex01.56`*R Data set: ex01.56*

---

**Description**

The `ex01.56` data frame has 26 rows and 1 column.

**Usage**

```
data(ex01.56)
```

**Format**

A data frame with 26 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.56)
str(ex01.56)
```

---

ex01.59

*R Data set: ex01.59*

---

**Description**

The ex01.59 data frame has 50 rows and 2 columns.

**Usage**

```
data(ex01.59)
```

**Format**

A data frame with 50 observations on the following 2 variables.

ED a numeric vector

Non a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.59)
str(ex01.59)
```

---

`ex01.60`*R Data set: ex01.60*

---

**Description**

The `ex01.60` data frame has 12 rows and 2 columns.

**Usage**

```
data(ex01.60)
```

**Format**

A data frame with 12 observations on the following 2 variables.

`Test` a numeric vector

`Cannister` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.60)
str(ex01.60)
```

---

`ex01.63`*R Data set: ex01.63*

---

**Description**

The `ex01.63` data frame has 26 rows and 1 column.

**Usage**

```
data(ex01.63)
```

**Format**

A data frame with 26 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.63)
str(ex01.63)
```

---

ex01.64

*R Data set: ex01.64*

---

**Description**

The ex01.64 data frame has 4 rows and 2 columns.

**Usage**

```
data(ex01.64)
```

**Format**

A data frame with 4 observations on the following 2 variables.

HC.gm.mi a numeric vector

CO.gm.mi a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.64)
str(ex01.64)
```

---

ex01.65

*R Data set: ex01.65*

---

**Description**

The ex01.65 data frame has 4 rows and 2 columns.

**Usage**

```
data(ex01.65)
```

**Format**

A data frame with 4 observations on the following 2 variables.

HC a numeric vector

CO a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.65)
str(ex01.65)
```

---

ex01.67

*R Data set: ex01.67*

---

**Description**

The ex01.67 data frame has 15 rows and 1 column.

**Usage**

```
data(ex01.67)
```

**Format**

A data frame with 15 observations on the following variable.

CO.conc a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.67)
str(ex01.67)
```

---

ex01.70

*R Data set: ex01.70*

---

**Description**

The ex01.70 data frame has 15 rows and 2 columns.

**Usage**

```
data(ex01.70)
```

**Format**

A data frame with 15 observations on the following 2 variables.

Weight a numeric vector

Treadmill a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.70)
str(ex01.70)
```

---

ex01.72

*R Data set: ex01.72*

---

**Description**

The ex01.72 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex01.72)
```

**Format**

A data frame with 13 observations on the following 2 variables.

PTSD a numeric vector

Healthy a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.72)
str(ex01.72)
```

---

`ex01.73`*R Data set: ex01.73*

---

**Description**

The `ex01.73` data frame has 20 rows and 1 column.

**Usage**

```
data(ex01.73)
```

**Format**

A data frame with 20 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex01.73)
str(ex01.73)
```

---

`ex01.75`*R Data set: ex01.75*

---

**Description**

The `ex01.75` data frame has 15 rows and 3 columns.

**Usage**

```
data(ex01.75)
```

**Format**

A data frame with 15 observations on the following 3 variables.

Type.1 a numeric vector

Type.2 a numeric vector

Type.3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.75)
str(ex01.75)
```

---

ex01.77

*R Data set: ex01.77*

---

**Description**

The ex01.77 data frame has 46 rows and 1 column.

**Usage**

```
data(ex01.77)
```

**Format**

A data frame with 46 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.77)
str(ex01.77)
```

---

ex01.80

*R Data set: ex01.80*

---

**Description**

The ex01.80 data frame has 15 rows and 2 columns.

**Usage**

```
data(ex01.80)
```

**Format**

A data frame with 15 observations on the following 2 variables.

Length a factor with levels 10-<12 12-<14 14-<16 16-<18 18-<20 20-<22 22-<24 24-<26 26-<28  
28-<30 30-<35 35-<40 40-<45 6-<8 8-<10

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.80)
str(ex01.80)
```

---

`ex01.83`*R Data set: ex01.83*

---

**Description**

The `ex01.83` data frame has 26 rows and 1 column.

**Usage**

```
data(ex01.83)
```

**Format**

A data frame with 26 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex01.83)
str(ex01.83)
```

---

`ex04.82`*R Data set: ex04.82*

---

**Description**

The `ex04.82` data frame has 10 rows and 1 column.

**Usage**

```
data(ex04.82)
```

**Format**

A data frame with 10 observations on the following variable.

lifetime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex04.82)
str(ex04.82)
```

---

ex04.83

*R Data set: ex04.83*

---

**Description**

The ex04.83 data frame has 16 rows and 1 column.

**Usage**

```
data(ex04.83)
```

**Format**

A data frame with 16 observations on the following variable.

thickness a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.83)
str(ex04.83)
```

---

`ex04.84`*R Data set: ex04.84*

---

**Description**

The `ex04.84` data frame has 18 rows and 2 columns.

**Usage**

```
data(ex04.84)
```

**Format**

A data frame with 18 observations on the following 2 variables.

`obsv` a numeric vector

`p` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.84)
str(ex04.84)
```

---

`ex04.86`*R Data set: ex04.86*

---

**Description**

The `ex04.86` data frame has 20 rows and 1 column.

**Usage**

```
data(ex04.86)
```

**Format**

A data frame with 20 observations on the following variable.

loadlife a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.86)
str(ex04.86)
```

---

ex04.88

*R Data set: ex04.88*

---

**Description**

The ex04.88 data frame has 10 rows and 1 column.

**Usage**

```
data(ex04.88)
```

**Format**

A data frame with 10 observations on the following variable.

lifetime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.88)
str(ex04.88)
```

---

`ex04.89`*R Data set: ex04.89*

---

**Description**

The `ex04.89` data frame has 16 rows and 1 column.

**Usage**

```
data(ex04.89)
```

**Format**

A data frame with 16 observations on the following variable.

`thickness` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.89)
str(ex04.89)
```

---

`ex04.90`*R Data set: ex04.90*

---

**Description**

The `ex04.90` data frame has 18 rows and 2 columns.

**Usage**

```
data(ex04.90)
```

**Format**

A data frame with 18 observations on the following 2 variables.

`obsv` a numeric vector

`p` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.90)
str(ex04.90)
```

---

ex04.91

*R Data set: ex04.91*

---

**Description**

The ex04.91 data frame has 16 rows and 1 column.

**Usage**

```
data(ex04.91)
```

**Format**

A data frame with 16 observations on the following variable.

failtime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.91)
str(ex04.91)
```

---

`ex04.92`*R Data set: ex04.92*

---

**Description**

The `ex04.92` data frame has 20 rows and 1 column.

**Usage**

```
data(ex04.92)
```

**Format**

A data frame with 20 observations on the following variable.

`loadlife` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.92)
str(ex04.92)
```

---

`ex04.94`*R Data set: ex04.94*

---

**Description**

The `ex04.94` data frame has 30 rows and 1 column.

**Usage**

```
data(ex04.94)
```

**Format**

A data frame with 30 observations on the following variable.

`precip` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex04.94)
str(ex04.94)
```

---

ex04.97

*R Data set: ex04.97*

---

**Description**

The ex04.97 data frame has 16 rows and 1 column.

**Usage**

```
data(ex04.97)
```

**Format**

A data frame with 16 observations on the following variable.

failtime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex04.97)
str(ex04.97)
```

---

`ex06.01`*R Data set: ex06.01*

---

**Description**

The `ex06.01` data frame has 27 rows and 1 column.

**Usage**

```
data(ex06.01)
```

**Format**

A data frame with 27 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.01)
str(ex06.01)
```

---

`ex06.02`*R Data set: ex06.02*

---

**Description**

The `ex06.02` data frame has 21 rows and 1 column.

**Usage**

```
data(ex06.02)
```

**Format**

A data frame with 21 observations on the following variable.

C1 a factor with levels C C1 H S T

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.02)
str(ex06.02)
```

---

ex06.03

*R Data set: ex06.03*

---

**Description**

The ex06.03 data frame has 16 rows and 1 column.

**Usage**

```
data(ex06.03)
```

**Format**

A data frame with 16 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex06.03)
str(ex06.03)
```

---

`ex06.04`*R Data set: ex06.04*

---

**Description**

The `ex06.04` data frame has 20 rows and 1 column.

**Usage**

```
data(ex06.04)
```

**Format**

A data frame with 20 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.04)
str(ex06.04)
```

---

`ex06.05`*R Data set: ex06.05*

---

**Description**

The `ex06.05` data frame has 5 rows and 3 columns.

**Usage**

```
data(ex06.05)
```

**Format**

A data frame with 5 observations on the following 3 variables.

Book.value a numeric vector

Audited.value a numeric vector

Error a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.05)
str(ex06.05)
```

---

ex06.06

*R Data set: ex06.06*

---

**Description**

The ex06.06 data frame has 31 rows and 1 column.

**Usage**

```
data(ex06.06)
```

**Format**

A data frame with 31 observations on the following variable.

Strmflow a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.06)
str(ex06.06)
```

---

ex06.09

*R Data set: ex06.09*

---

**Description**

The `ex06.09` data frame has 8 rows and 2 columns.

**Usage**

```
data(ex06.09)
```

**Format**

A data frame with 8 observations on the following 2 variables.

`Number.of.searches.per.item` a numeric vector

`Observed.frequency` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.09)
str(ex06.09)
```

---

ex06.15

*R Data set: ex06.15*

---

**Description**

The ex06.15 data frame has 10 rows and 1 column.

**Usage**

```
data(ex06.15)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex06.15)  
str(ex06.15)
```

---

ex06.25

*R Data set: ex06.25*

---

**Description**

The ex06.25 data frame has 10 rows and 1 column.

**Usage**

```
data(ex06.25)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex06.25)
str(ex06.25)
```

---

ex07.10

*R Data set: ex07.10*

---

**Description**

The ex07.10 data frame has 15 rows and 1 column.

**Usage**

```
data(ex07.10)
```

**Format**

A data frame with 15 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex07.10)
str(ex07.10)
```

---

`ex07.26`*R Data set: ex07.26*

---

**Description**

The `ex07.26` data frame has 11 rows and 2 columns.

**Usage**

```
data(ex07.26)
```

**Format**

A data frame with 11 observations on the following 2 variables.

Number.of.absences a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex07.26)
str(ex07.26)
```

---

`ex07.33`*R Data set: ex07.33*

---

**Description**

The `ex07.33` data frame has 17 rows and 1 column.

**Usage**

```
data(ex07.33)
```

**Format**

A data frame with 17 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex07.33)
str(ex07.33)
```

---

ex07.37

*R Data set: ex07.37*

---

**Description**

The ex07.37 data frame has 20 rows and 1 column.

**Usage**

```
data(ex07.37)
```

**Format**

A data frame with 20 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex07.37)
str(ex07.37)
```

---

ex07.45

*R Data set: ex07.45*

---

**Description**

The ex07.45 data frame has 22 rows and 1 column.

**Usage**

```
data(ex07.45)
```

**Format**

A data frame with 22 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex07.45)  
str(ex07.45)
```

---

ex07.46

*R Data set: ex07.46*

---

**Description**

The ex07.46 data frame has 15 rows and 1 column.

**Usage**

```
data(ex07.46)
```

**Format**

A data frame with 15 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex07.46)
str(ex07.46)
```

---

ex07.47

*R Data set: ex07.47*

---

**Description**

The ex07.47 data frame has 48 rows and 1 column.

**Usage**

```
data(ex07.47)
```

**Format**

A data frame with 48 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex07.47)
str(ex07.47)
```

---

ex07.49

*R Data set: ex07.49*

---

**Description**

The ex07.49 data frame has 18 rows and 1 column.

**Usage**

```
data(ex07.49)
```

**Format**

A data frame with 18 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex07.49)
str(ex07.49)
```

---

ex07.56

*R Data set: ex07.56*

---

**Description**

The ex07.56 data frame has 16 rows and 1 column.

**Usage**

```
data(ex07.56)
```

**Format**

A data frame with 16 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex07.56)
str(ex07.56)
```

---

ex07.58

*R Data set: ex07.58*

---

**Description**

The ex07.58 data frame has 6 rows and 1 column.

**Usage**

```
data(ex07.58)
```

**Format**

A data frame with 6 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex07.58)
str(ex07.58)
```

---

`ex08.32`*R Data set: ex08.32*

---

**Description**

The `ex08.32` data frame has 12 rows and 1 column.

**Usage**

```
data(ex08.32)
```

**Format**

A data frame with 12 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.32)
str(ex08.32)
```

---

`ex08.54`*R Data set: ex08.54*

---

**Description**

The `ex08.54` data frame has 30 rows and 1 column.

**Usage**

```
data(ex08.54)
```

**Format**

A data frame with 30 observations on the following variable.

percorg a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.54)
str(ex08.54)
```

---

ex08.55

*R Data set: ex08.55*

---

**Description**

The ex08.55 data frame has 13 rows and 1 column.

**Usage**

```
data(ex08.55)
```

**Format**

A data frame with 13 observations on the following variable.

times a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.55)
str(ex08.55)
```

---

ex08.56

*R Data set: ex08.56*

---

**Description**

The ex08.56 data frame has 30 rows and 1 column.

**Usage**

```
data(ex08.56)
```

**Format**

A data frame with 30 observations on the following variable.

percorg a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.56)
str(ex08.56)
```

---

ex08.57

*R Data set: ex08.57*

---

**Description**

The ex08.57 data frame has 13 rows and 1 column.

**Usage**

```
data(ex08.57)
```

**Format**

A data frame with 13 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.57)
str(ex08.57)
```

---

ex08.66

*R Data set: ex08.66*

---

**Description**

The ex08.66 data frame has 8 rows and 1 column.

**Usage**

```
data(ex08.66)
```

**Format**

A data frame with 8 observations on the following variable.

SoilHeat a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.66)
str(ex08.66)
```

---

`ex08.68`*R Data set: ex08.68*

---

**Description**

The `ex08.68` data frame has 8 rows and 1 column.

**Usage**

```
data(ex08.68)
```

**Format**

A data frame with 8 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.68)
str(ex08.68)
```

---

`ex08.70`*R Data set: ex08.70*

---

**Description**

The `ex08.70` data frame has 20 rows and 1 column.

**Usage**

```
data(ex08.70)
```

**Format**

A data frame with 20 observations on the following variable.

time a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.70)
str(ex08.70)
```

---

ex08.80

*R Data set: ex08.80*

---

**Description**

The ex08.80 data frame has 10 rows and 1 column.

**Usage**

```
data(ex08.80)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex08.80)
str(ex08.80)
```

---

`ex08.83`*R Data set: ex08.83*

---

**Description**

The `ex08.83` data frame has 10 rows and 1 column.

**Usage**

```
data(ex08.83)
```

**Format**

A data frame with 10 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex08.83)
str(ex08.83)
```

---

`ex09.07`*R Data set: ex09.07*

---

**Description**

The `ex09.07` data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.07)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Gender a factor with levels Females Males

Sample.Size a numeric vector

Sample.Mean a numeric vector

Sample.Standard.Deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.07)
str(ex09.07)
```

---

ex09.12

*R Data set: ex09.12*

---

**Description**

The ex09.12 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.12)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Age.days a numeric vector

Sample.Size a numeric vector

Sample.Mean a numeric vector

Sample.Standard.Deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.12)
str(ex09.12)
```

---

ex09.16

*R Data set: ex09.16*

---

**Description**

The ex09.16 data frame has 2 rows and 3 columns.

**Usage**

```
data(ex09.16)
```

**Format**

A data frame with 2 observations on the following 3 variables.

Type a numeric vector

Sample.Average a numeric vector

Sample.Standard.Deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.16)
str(ex09.16)
```

---

`ex09.23`*R Data set: ex09.23*

---

**Description**

The `ex09.23` data frame has 24 rows and 2 columns.

**Usage**

```
data(ex09.23)
```

**Format**

A data frame with 24 observations on the following 2 variables.

H a numeric vector

P a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.23)
str(ex09.23)
```

---

`ex09.25`*R Data set: ex09.25*

---

**Description**

The `ex09.25` data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.25)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Condition a factor with levels LBP No LBP

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.SD a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.25)
str(ex09.25)
```

---

ex09.27

*R Data set: ex09.27*

---

**Description**

The ex09.27 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.27)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Type.of.Player a factor with levels Advanced Intermediate

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.standard.deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.27)
str(ex09.27)
```

---

ex09.28

*R Data set: ex09.28*

---

**Description**

The ex09.28 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex09.28)
```

**Format**

A data frame with 10 observations on the following 2 variables.

YF a numeric vector

OF a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.28)
str(ex09.28)
```

---

ex09.29

*R Data set: ex09.29*

---

**Description**

The ex09.29 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.29)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Beverage a factor with levels Cola Strawberry drink

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.standard.deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.29)
str(ex09.29)
```

---

ex09.30

*R Data set: ex09.30*

---

**Description**

The ex09.30 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.30)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Type a factor with levels Commercial carbon grid Fiberglass grid

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.standard.deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.30)
str(ex09.30)
```

---

ex09.31

*R Data set: ex09.31*

---

**Description**

The ex09.31 data frame has 11 rows and 1 column.

**Usage**

```
data(ex09.31)
```

**Format**

A data frame with 11 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.31)
str(ex09.31)
```

---

ex09.32

*R Data set: ex09.32*

---

**Description**

The ex09.32 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.32)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Type.of.wood a factor with levels Douglas fir Red oak

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.standard.deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.32)
str(ex09.32)
```

---

ex09.33

*R Data set: ex09.33*

---

**Description**

The ex09.33 data frame has 2 rows and 4 columns.

**Usage**

```
data(ex09.33)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Treatment a factor with levels Control Steroid

Sample.size a numeric vector

Sample.mean a numeric vector

Sample.standard.deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.33)
str(ex09.33)
```

---

ex09.36

*R Data set: ex09.36*

---

**Description**

The ex09.36 data frame has 8 rows and 3 columns.

**Usage**

```
data(ex09.36)
```

**Format**

A data frame with 8 observations on the following 3 variables.

Fabric a numeric vector

U a numeric vector

A a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.36)
str(ex09.36)
```

---

ex09.37

*R Data set: ex09.37*

---

**Description**

The ex09.37 data frame has 33 rows and 3 columns.

**Usage**

```
data(ex09.37)
```

**Format**

A data frame with 33 observations on the following 3 variables.

House a numeric vector

Indoor a numeric vector

Outdoor a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.37)
str(ex09.37)
```

---

ex09.38

*R Data set: ex09.38*

---

**Description**

The ex09.38 data frame has 15 rows and 3 columns.

**Usage**

```
data(ex09.38)
```

**Format**

A data frame with 15 observations on the following 3 variables.

Test.condition a numeric vector

Normal a numeric vector

High a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.38)
str(ex09.38)
```

---

ex09.39

*R Data set: ex09.39*

---

**Description**

The ex09.39 data frame has 14 rows and 4 columns.

**Usage**

```
data(ex09.39)
```

**Format**

A data frame with 14 observations on the following 4 variables.

Infant a numeric vector

Isotopic.method a numeric vector

Test a numeric vector

Difference a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.39)
str(ex09.39)
```

---

ex09.40

*R Data set: ex09.40*

---

**Description**

The ex09.40 data frame has 16 rows and 3 columns.

**Usage**

```
data(ex09.40)
```

**Format**

A data frame with 16 observations on the following 3 variables.

Period a numeric vector

Pipe a numeric vector

Brush a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.40)
str(ex09.40)
```

---

ex09.41

*R Data set: ex09.41*

---

**Description**

The ex09.41 data frame has 9 rows and 3 columns.

**Usage**

```
data(ex09.41)
```

**Format**

A data frame with 9 observations on the following 3 variables.

Subject a numeric vector

Black a numeric vector

White a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.41)
str(ex09.41)
```

---

ex09.43

*R Data set: ex09.43*

---

**Description**

The ex09.43 data frame has 15 rows and 1 column.

**Usage**

```
data(ex09.43)
```

**Format**

A data frame with 15 observations on the following variable.

c1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.43)
str(ex09.43)
```

---

`ex09.44`*R Data set: ex09.44*

---

**Description**

The `ex09.44` data frame has 16 rows and 2 columns.

**Usage**

```
data(ex09.44)
```

**Format**

A data frame with 16 observations on the following 2 variables.

`X1min` a numeric vector

`X4weeks` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.44)
str(ex09.44)
```

---

`ex09.63`*R Data set: ex09.63*

---

**Description**

The `ex09.63` data frame has 4 rows and 2 columns.

**Usage**

```
data(ex09.63)
```

**Format**

A data frame with 4 observations on the following 2 variables.

Epoxy a numeric vector

MMA.prepolymer a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.63)
str(ex09.63)
```

---

ex09.65

*R Data set: ex09.65*

---

**Description**

The ex09.65 data frame has 3 rows and 4 columns.

**Usage**

```
data(ex09.65)
```

**Format**

A data frame with 3 observations on the following 4 variables.

C1 a factor with levels Fixed Floating Method

C2 a factor with levels 10 size

C3 a factor with levels 757 807 mean

C4 a factor with levels 27 41 SD

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.65)
str(ex09.65)
```

---

ex09.66

*R Data set: ex09.66*

---

**Description**

The ex09.66 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex09.66)
```

**Format**

A data frame with 8 observations on the following 2 variables.

Fertilizer.plots a numeric vector

Control.plots a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.66)
str(ex09.66)
```

---

`ex09.68`*R Data set: ex09.68*

---

**Description**

The `ex09.68` data frame has 24 rows and 2 columns.

**Usage**

```
data(ex09.68)
```

**Format**

A data frame with 24 observations on the following 2 variables.

`Pitcher.sampling` a numeric vector

`Block.sampling` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.68)
str(ex09.68)
```

---

`ex09.70`*R Data set: ex09.70*

---

**Description**

The `ex09.70` data frame has 5 rows and 4 columns.

**Usage**

```
data(ex09.70)
```

**Format**

A data frame with 5 observations on the following 4 variables.

C1 a factor with levels C1 Type Without side coating With side coating

C2 a factor with levels 10 C2 Sample size

C3 a factor with levels 63.23 80.95 C3 mean Sample

C4 a factor with levels 5.96 9.59 C4 Sample SD

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.70)
str(ex09.70)
```

---

ex09.72

*R Data set: ex09.72*

---

**Description**

The ex09.72 data frame has 17 rows and 3 columns.

**Usage**

```
data(ex09.72)
```

**Format**

A data frame with 17 observations on the following 3 variables.

Motor a numeric vector

Commutator a numeric vector

Pinion a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.72)
str(ex09.72)
```

---

ex09.76

*R Data set: ex09.76*

---

**Description**

The ex09.76 data frame has 6 rows and 4 columns.

**Usage**

```
data(ex09.76)
```

**Format**

A data frame with 6 observations on the following 4 variables.

C1 a factor with levels C1 Clean Site Steam plant

C2 a factor with levels 8 9 C2 Sample size

C3 a factor with levels 11 18 C3 concentration Mean log

C4 a factor with levels 4.6 4.9 C4 concentration of log SD

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.76)
str(ex09.76)
```

---

`ex09.77`*R Data set: ex09.77*

---

**Description**

The `ex09.77` data frame has 5 rows and 3 columns.

**Usage**

```
data(ex09.77)
```

**Format**

A data frame with 5 observations on the following 3 variables.

`Twist.multiple` a numeric vector

`Control.strength` a numeric vector

`Heated.strength` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.77)
str(ex09.77)
```

---

`ex09.78`*R Data set: ex09.78*

---

**Description**

The `ex09.78` data frame has 5 rows and 4 columns.

**Usage**

```
data(ex09.78)
```

**Format**

A data frame with 5 observations on the following 4 variables.

C1 a factor with levels C1 Elderly men Group Young

C2 a factor with levels 12 13 C2 Sample size

C3 a factor with levels 6.71 7.47 C3 mean Sample

C4 a factor with levels 0.22 0.28 C4 error Standard

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.78)
str(ex09.78)
```

---

ex09.79

*R Data set: ex09.79*

---

**Description**

The ex09.79 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex09.79)
```

**Format**

A data frame with 8 observations on the following 2 variables.

Good.visibility a numeric vector

Poor.visibility a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.79)
str(ex09.79)
```

---

ex09.82

*R Data set: ex09.82*

---

**Description**

The ex09.82 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex09.82)
```

**Format**

A data frame with 7 observations on the following 2 variables.

expend a numeric vector

intake a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.82)
str(ex09.82)
```

---

ex09.86

*R Data set: ex09.86*

---

**Description**

The ex09.86 data frame has 4 rows and 3 columns.

**Usage**

```
data(ex09.86)
```

**Format**

A data frame with 4 observations on the following 3 variables.

Treatment a numeric vector

n a numeric vector

SD a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.86)  
str(ex09.86)
```

---

ex09.88

*R Data set: ex09.88*

---

**Description**

The ex09.88 data frame has 2 rows and 9 columns.

**Usage**

```
data(ex09.88)
```

**Format**

A data frame with 2 observations on the following 9 variables.

C1 a factor with levels Carpeted: Uncarpeted:

C2 a numeric vector

C3 a numeric vector

C4 a numeric vector

C5 a numeric vector

C6 a numeric vector

C7 a numeric vector

C8 a numeric vector

C9 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.88)
str(ex09.88)
```

---

ex09.90

*R Data set: ex09.90*

---

**Description**

The ex09.90 data frame has 3 rows and 9 columns.

**Usage**

```
data(ex09.90)
```

**Format**

A data frame with 3 observations on the following 9 variables.

C1 a factor with levels Frequency Region 1 Region 2

C2 a numeric vector

C3 a numeric vector

C4 a numeric vector

C5 a numeric vector

C6 a numeric vector

C7 a numeric vector

C8 a numeric vector

C9 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex09.90)
str(ex09.90)
```

---

ex09.92

*R Data set: ex09.92*

---

**Description**

The ex09.92 data frame has 8 rows and 3 columns.

**Usage**

```
data(ex09.92)
```

**Format**

A data frame with 8 observations on the following 3 variables.

Number a numeric vector

Region1 a numeric vector

Region2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex09.92)
str(ex09.92)
```

---

ex10.06

*R Data set: ex10.06*

---

**Description**

The ex10.06 data frame has 40 rows and 2 columns.

**Usage**

```
data(ex10.06)
```

**Format**

A data frame with 40 observations on the following 2 variables.

Fe a numeric vector

formation.group a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.06)
str(ex10.06)
```

---

ex10.08

*R Data set: ex10.08*

---

**Description**

The ex10.08 data frame has 35 rows and 2 columns.

**Usage**

```
data(ex10.08)
```

**Format**

A data frame with 35 observations on the following 2 variables.

stiffness a numeric vector

plate.lengths a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.08)
str(ex10.08)
```

---

ex10.09

*R Data set: ex10.09*

---

**Description**

The ex10.09 data frame has 24 rows and 2 columns.

**Usage**

```
data(ex10.09)
```

**Format**

A data frame with 24 observations on the following 2 variables.

thiamin a numeric vector

type a factor with levels Barley Maize Oats Wheat

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.09)
str(ex10.09)
```

---

ex10.18

*R Data set: ex10.18*

---

**Description**

The ex10.18 data frame has 4 rows and 5 columns.

**Usage**

```
data(ex10.18)
```

**Format**

A data frame with 4 observations on the following 5 variables.

Hormone.1 a numeric vector

Hormone.2 a numeric vector

Hormone.3 a numeric vector

Hormone.4 a numeric vector

Hormone.5 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.18)
str(ex10.18)
```

---

ex10.22

*R Data set: ex10.22*

---

**Description**

The ex10.22 data frame has 5 rows and 4 columns.

**Usage**

```
data(ex10.22)
```

**Format**

A data frame with 5 observations on the following 4 variables.

level.1.6 a numeric vector

level.3.8 a numeric vector

level.6.0 a numeric vector

level.10.2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.22)
str(ex10.22)
```

---

`ex10.26`*R Data set: ex10.26*

---

**Description**

The `ex10.26` data frame has 5 rows and 6 columns.

**Usage**

```
data(ex10.26)
```

**Format**

A data frame with 5 observations on the following 6 variables.

`Imperial` a numeric vector

`Parkay` a numeric vector

`Blue.Bonnet` a numeric vector

`Chiffon` a numeric vector

`Mazola` a numeric vector

`Fleischmann` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.26)
str(ex10.26)
```

---

ex10.27

*R Data set: ex10.27*

---

**Description**

The ex10.27 data frame has 6 rows and 4 columns.

**Usage**

```
data(ex10.27)
```

**Format**

A data frame with 6 observations on the following 4 variables.

Brand.1 a numeric vector

Brand.2 a numeric vector

Brand.3 a numeric vector

Brand.4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.27)
str(ex10.27)
```

---

ex10.32

*R Data set: ex10.32*

---

**Description**

The ex10.32 data frame has 5 rows and 4 columns.

**Usage**

```
data(ex10.32)
```

**Format**

A data frame with 5 observations on the following 4 variables.

A a numeric vector

B a numeric vector

C a numeric vector

D a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.32)
str(ex10.32)
```

---

ex10.36

*R Data set: ex10.36*

---

**Description**

The ex10.36 data frame has 4 rows and 5 columns.

**Usage**

```
data(ex10.36)
```

**Format**

A data frame with 4 observations on the following 5 variables.

L.D a numeric vector

R a numeric vector

R.L a numeric vector

C a numeric vector

C.L a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.36)
str(ex10.36)
```

---

ex10.37

*R Data set: ex10.37*

---

**Description**

The ex10.37 data frame has 6 rows and 5 columns.

**Usage**

```
data(ex10.37)
```

**Format**

A data frame with 6 observations on the following 5 variables.

Brand.1 a numeric vector

Brand.2 a numeric vector

Brand.3 a numeric vector

Brand.4 a numeric vector

Brand.5 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.37)
str(ex10.37)
```

---

ex10.41

*R Data set: ex10.41*

---

**Description**

The ex10.41 data frame has 3 rows and 4 columns.

**Usage**

```
data(ex10.41)
```

**Format**

A data frame with 3 observations on the following 4 variables.

Lab.1 a numeric vector

Lab.2 a numeric vector

Lab.3 a numeric vector

Lab.4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex10.41)
str(ex10.41)
```

---

ex10.42

*R Data set: ex10.42*

---

**Description**

The ex10.42 data frame has 19 rows and 2 columns.

**Usage**

```
data(ex10.42)
```

**Format**

A data frame with 19 observations on the following 2 variables.

`cff` a numeric vector

`color` a factor with levels Blue Brown Green

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.42)
str(ex10.42)
```

---

ex10.44

*R Data set: ex10.44*

---

**Description**

The `ex10.44` data frame has 3 rows and 4 columns.

**Usage**

```
data(ex10.44)
```

**Format**

A data frame with 3 observations on the following 4 variables.

`OCM` a numeric vector

`PIM` a numeric vector

`RM` a numeric vector

`PCM` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex10.44)
str(ex10.44)
```

---

ex11.02

*R Data set: ex11.02*

---

**Description**

The ex11.02 data frame has 12 rows and 3 columns.

**Usage**

```
data(ex11.02)
```

**Format**

A data frame with 12 observations on the following 3 variables.

Response a numeric vector

Coating.A a numeric vector

Soil.Type.B a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.02)
str(ex11.02)
```

---

ex11.03

*R Data set: ex11.03*

---

**Description**

The ex11.03 data frame has 17 rows and 3 columns.

**Usage**

```
data(ex11.03)
```

**Format**

A data frame with 17 observations on the following 3 variables.

C1 a factor with levels 200 226 240 261 278 312 330 369 381 416 462 500 517 575 645 733 C1

C2 a factor with levels 1(200) 2(400) 3(700) 4(1100) C2

C3 a factor with levels 1(190) 2(250) 3(300) 4(400) C3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.03)  
str(ex11.03)
```

---

ex11.04

*R Data set: ex11.04*

---

**Description**

The ex11.04 data frame has 12 rows and 3 columns.

**Usage**

```
data(ex11.04)
```

**Format**

A data frame with 12 observations on the following 3 variables.

Response a numeric vector

Paint.Brand a numeric vector

Roller.Brand a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.04)
str(ex11.04)
```

---

ex11.05

*R Data set: ex11.05*

---

**Description**

The ex11.05 data frame has 20 rows and 3 columns.

**Usage**

```
data(ex11.05)
```

**Format**

A data frame with 20 observations on the following 3 variables.

force a numeric vector

connector a numeric vector

angle a factor with levels 0 deg 2 deg 4 deg 6 deg

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.05)
str(ex11.05)
```

---

ex11.08

*R Data set: ex11.08*

---

**Description**

The ex11.08 data frame has 30 rows and 3 columns.

**Usage**

```
data(ex11.08)
```

**Format**

A data frame with 30 observations on the following 3 variables.

epiniphr a numeric vector

Anesthet a factor with levels 1 2 3

Subject a factor with levels 1 2 3 4 5 6 7 8 9 10

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.08)
str(ex11.08)
```

---

`ex11.09`*R Data set: ex11.09*

---

**Description**

The `ex11.09` data frame has 36 rows and 3 columns.

**Usage**

```
data(ex11.09)
```

**Format**

A data frame with 36 observations on the following 3 variables.

`response` a numeric vector

`type` a numeric vector

`subject` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.09)
str(ex11.09)
```

---

`ex11.10`*R Data set: ex11.10*

---

**Description**

The `ex11.10` data frame has 10 rows and 4 columns.

**Usage**

```
data(ex11.10)
```

**Format**

A data frame with 10 observations on the following 4 variables.

Batch a numeric vector

Method.A a numeric vector

Method.B a numeric vector

Method.C a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.10)
str(ex11.10)
```

---

ex11.15

*R Data set: ex11.15*

---

**Description**

The ex11.15 data frame has 18 rows and 4 columns.

**Usage**

```
data(ex11.15)
```

**Format**

A data frame with 18 observations on the following 4 variables.

Sand a factor with levels 0 15 30

Carbon a factor with levels 0 0.25 0.5

Hardness a numeric vector

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.15)
str(ex11.15)
```

---

ex11.16

*R Data set: ex11.16*

---

**Description**

The ex11.16 data frame has 18 rows and 3 columns.

**Usage**

```
data(ex11.16)
```

**Format**

A data frame with 18 observations on the following 3 variables.

Response a numeric vector

Formulat a factor with levels 1 2

Speed a factor with levels 60 70 80

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.16)
str(ex11.16)
```

---

ex11.17

*R Data set: ex11.17*

---

**Description**

The ex11.17 data frame has 18 rows and 4 columns.

**Usage**

```
data(ex11.17)
```

**Format**

A data frame with 18 observations on the following 4 variables.

Sand.Addition.perc a numeric vector

Carbon.Fiber.Addition.perc a numeric vector

Casting.hardness a numeric vector

Wet.Mold.Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.17)
str(ex11.17)
```

---

ex11.18

*R Data set: ex11.18*

---

**Description**

The ex11.18 data frame has 18 rows and 3 columns.

**Usage**

```
data(ex11.18)
```

**Format**

A data frame with 18 observations on the following 3 variables.

Yield a numeric vector

Speed a numeric vector

Formulation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.18)
str(ex11.18)
```

---

ex11.20

*R Data set: ex11.20*

---

**Description**

The ex11.20 data frame has 18 rows and 3 columns.

**Usage**

```
data(ex11.20)
```

**Format**

A data frame with 18 observations on the following 3 variables.

current a numeric vector

glass a factor with levels 1 2

phosphor a factor with levels 1 2 3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.20)
str(ex11.20)
```

---

ex11.29

*R Data set: ex11.29*

---

**Description**

The ex11.29 data frame has 96 rows and 4 columns.

**Usage**

```
data(ex11.29)
```

**Format**

A data frame with 96 observations on the following 4 variables.

length a numeric vector

time a factor with levels 1 2 3

heat a factor with levels 1 2

machine a factor with levels 1 2 3 4

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.29)
str(ex11.29)
```

---

ex11.31

*R Data set: ex11.31*

---

**Description**

The ex11.31 data frame has 27 rows and 4 columns.

**Usage**

```
data(ex11.31)
```

**Format**

A data frame with 27 observations on the following 4 variables.

Yield a numeric vector

time a factor with levels 1 2 3

tempture a factor with levels 1 2 3

pressure a factor with levels 1 2 3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.31)
str(ex11.31)
```

---

ex11.34

*R Data set: ex11.34*

---

**Description**

The ex11.34 data frame has 36 rows and 4 columns.

**Usage**

```
data(ex11.34)
```

**Format**

A data frame with 36 observations on the following 4 variables.

Sales a numeric vector

store a factor with levels 1 2 3 4 5 6

week a factor with levels 1 2 3 4 5 6

shelf a factor with levels 1 2 3 4 5 6

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.34)
str(ex11.34)
```

---

ex11.35

*R Data set: ex11.35*

---

**Description**

The ex11.35 data frame has 25 rows and 4 columns.

**Usage**

```
data(ex11.35)
```

**Format**

A data frame with 25 observations on the following 4 variables.

Moisture a numeric vector

plant a factor with levels 1 2 3 4 5

leafsize a factor with levels 1 2 3 4 5

time a factor with levels 1 2 3 4 5

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.35)
str(ex11.35)
```

---

ex11.39

*R Data set: ex11.39*

---

**Description**

The ex11.39 data frame has 24 rows and 4 columns.

**Usage**

```
data(ex11.39)
```

**Format**

A data frame with 24 observations on the following 4 variables.

cleaning a numeric vector

detergnt a factor with levels 1 2

carbonat a factor with levels 1 2

cellulos a factor with levels 1 2

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.39)
str(ex11.39)
```

---

`ex11.40`*R Data set: ex11.40*

---

**Description**

The `ex11.40` data frame has 32 rows and 5 columns.

**Usage**

```
data(ex11.40)
```

**Format**

A data frame with 32 observations on the following 5 variables.

`sizing` a numeric vector

`conc` a factor with levels 50 75

`pH` a factor with levels 6 7

`tempture` a factor with levels 60 70

`time` a factor with levels 6 8

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.40)
str(ex11.40)
```

---

`ex11.42`*R Data set: ex11.42*

---

**Description**

The `ex11.42` data frame has 48 rows and 5 columns.

**Usage**

```
data(ex11.42)
```

**Format**

A data frame with 48 observations on the following 5 variables.

`consump` a numeric vector

`roof` a factor with levels -1 1

`power` a factor with levels -1 1

`scrap` a factor with levels -1 1

`charge` a factor with levels -1 1

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.42)
str(ex11.42)
```

---

`ex11.43`*R Data set: ex11.43*

---

**Description**

The `ex11.43` data frame has 16 rows and 5 columns.

**Usage**

```
data(ex11.43)
```

**Format**

A data frame with 16 observations on the following 5 variables.

`duration` a numeric vector

`vibratn` a factor with levels -1 1

`tempture` a factor with levels -1 1

`altitude` a factor with levels -1 1

`firing` a factor with levels -1 1

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.43)
str(ex11.43)
```

---

`ex11.48`*R Data set: ex11.48*

---

**Description**

The `ex11.48` data frame has 8 rows and 5 columns.

**Usage**

```
data(ex11.48)
```

**Format**

A data frame with 8 observations on the following 5 variables.

`thrust` a numeric vector

`vibratn` a factor with levels -1 1

`tempture` a factor with levels -1 1

`altitude` a factor with levels -1 1

`firing` a factor with levels -1 1

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.48)
str(ex11.48)
```

---

ex11.50

*R Data set: ex11.50*

---

**Description**

The ex11.50 data frame has 45 rows and 3 columns.

**Usage**

```
data(ex11.50)
```

**Format**

A data frame with 45 observations on the following 3 variables.

Fabric a factor with levels Broadcloth Corduroy Crepe Denim Double knit Sheeting Terry  
Twill Twill mix

Response a numeric vector

Drying a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.50)  
str(ex11.50)
```

---

ex11.52

*R Data set: ex11.52*

---

**Description**

The ex11.52 data frame has 16 rows and 3 columns.

**Usage**

```
data(ex11.52)
```

**Format**

A data frame with 16 observations on the following 3 variables.

Response a numeric vector

Sowing.Rate.kg.ha a numeric vector

Plot a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.52)
str(ex11.52)
```

---

ex11.53

*R Data set: ex11.53*

---

**Description**

The ex11.53 data frame has 8 rows and 6 columns.

**Usage**

```
data(ex11.53)
```

**Format**

A data frame with 8 observations on the following 6 variables.

Run a numeric vector

Spray.Volume a factor with levels - +

Belt.Speed a factor with levels - +

Brand a factor with levels - +

Replication.1 a numeric vector

Replication.2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.53)
str(ex11.53)
```

---

ex11.54

*R Data set: ex11.54*

---

**Description**

The ex11.54 data frame has 8 rows and 5 columns.

**Usage**

```
data(ex11.54)
```

**Format**

A data frame with 8 observations on the following 5 variables.

Sample.number a numeric vector

Factor.A a numeric vector

Factor.B a numeric vector

Factor.C a numeric vector

Resonse.EC50 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex11.54)
str(ex11.54)
```

---

`ex11.55`*R Data set: ex11.55*

---

**Description**

The `ex11.55` data frame has 16 rows and 2 columns.

**Usage**

```
data(ex11.55)
```

**Format**

A data frame with 16 observations on the following 2 variables.

`Test.Run` a numeric vector

`Iron.Extraction` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.55)
str(ex11.55)
```

---

`ex11.56`*R Data set: ex11.56*

---

**Description**

The `ex11.56` data frame has 30 rows and 3 columns.

**Usage**

```
data(ex11.56)
```

**Format**

A data frame with 30 observations on the following 3 variables.

C1 a numeric vector

C2 a factor with levels pH 3 pH 5.5 pH 7

C3 a factor with levels Diseased Healthy

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.56)
str(ex11.56)
```

---

ex11.57

*R Data set: ex11.57*

---

**Description**

The ex11.57 data frame has 54 rows and 4 columns.

**Usage**

```
data(ex11.57)
```

**Format**

A data frame with 54 observations on the following 4 variables.

Response a numeric vector

Pressure a factor with levels Pressure 103.4 Pressure17.2 Pressure34.4

Temp a factor with levels 50 degrees 75 degrees 8 degrees

Fabric a factor with levels 420-D 630-D 840-D

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.57)
str(ex11.57)
```

---

ex11.59

*R Data set: ex11.59*

---

**Description**

The ex11.59 data frame has 36 rows and 4 columns.

**Usage**

```
data(ex11.59)
```

**Format**

A data frame with 36 observations on the following 4 variables.

Cure.Time.1 a numeric vector

Adhesive.type a factor with levels Copper Nickel

Adhesive.factor a numeric vector

Cure.Time a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.59)
str(ex11.59)
```

---

`ex11.61`*R Data set: ex11.61*

---

**Description**

The `ex11.61` data frame has 25 rows and 5 columns.

**Usage**

```
data(ex11.61)
```

**Format**

A data frame with 25 observations on the following 5 variables.

`weight` a numeric vector

`volume` a factor with levels 1 2 3 4 5

`color` a factor with levels 1 2 3 4 5

`size` a factor with levels 1 2 3 4 5

`time` a factor with levels 1 2 3 4 5

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex11.61)
str(ex11.61)
```

---

`ex12.01`*R Data set: ex12.01*

---

**Description**

The `ex12.01` data frame has 24 rows and 2 columns.

**Usage**

```
data(ex12.01)
```

**Format**

A data frame with 24 observations on the following 2 variables.

Temp a numeric vector

Ratio a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.01)
str(ex12.01)
```

---

`ex12.02`*R Data set: ex12.02*

---

**Description**

The `ex12.02` data frame has 10 rows and 4 columns.

**Usage**

```
data(ex12.02)
```

**Format**

A data frame with 10 observations on the following 4 variables.

Engine a numeric vector

Age a numeric vector

Baseline a numeric vector

Reformulated a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.02)
str(ex12.02)
```

---

ex12.03

*R Data set: ex12.03*

---

**Description**

The ex12.03 data frame has 20 rows and 2 columns.

**Usage**

```
data(ex12.03)
```

**Format**

A data frame with 20 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.03)
str(ex12.03)
```

---

ex12.04

*R Data set: ex12.04*

---

**Description**

The ex12.04 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex12.04)
```

**Format**

A data frame with 14 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.04)
str(ex12.04)
```

---

ex12.05

*R Data set: ex12.05*

---

**Description**

The ex12.05 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex12.05)
```

**Format**

A data frame with 7 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.05)  
str(ex12.05)
```

---

ex12.13

*R Data set: ex12.13*

---

**Description**

The ex12.13 data frame has 4 rows and 2 columns.

**Usage**

```
data(ex12.13)
```

**Format**

A data frame with 4 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.13)
str(ex12.13)
```

---

ex12.15

*R Data set: ex12.15*

---

**Description**

The ex12.15 data frame has 27 rows and 2 columns.

**Usage**

```
data(ex12.15)
```

**Format**

A data frame with 27 observations on the following 2 variables.

MoE a numeric vector

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.15)
str(ex12.15)
```

---

ex12.16

*R Data set: ex12.16*

---

**Description**

The ex12.16 data frame has 15 rows and 2 columns.

**Usage**

```
data(ex12.16)
```

**Format**

A data frame with 15 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.16)
str(ex12.16)
```

---

`ex12.19`*R Data set: ex12.19*

---

**Description**

The `ex12.19` data frame has 14 rows and 2 columns.

**Usage**

```
data(ex12.19)
```

**Format**

A data frame with 14 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.19)
str(ex12.19)
```

---

`ex12.20`*R Data set: ex12.20*

---

**Description**

The `ex12.20` data frame has 13 rows and 2 columns.

**Usage**

```
data(ex12.20)
```

**Format**

A data frame with 13 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.20)
str(ex12.20)
```

---

ex12.21

*R Data set: ex12.21*

---

**Description**

The ex12.21 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex12.21)
```

**Format**

A data frame with 10 observations on the following 2 variables.

space a numeric vector

distance a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.21)
str(ex12.21)
```

---

ex12.24

*R Data set: ex12.24*

---

**Description**

The ex12.24 data frame has 6 rows and 2 columns.

**Usage**

```
data(ex12.24)
```

**Format**

A data frame with 6 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.24)
str(ex12.24)
```

---

ex12.29

*R Data set: ex12.29*

---

**Description**

The ex12.29 data frame has 18 rows and 3 columns.

**Usage**

```
data(ex12.29)
```

**Format**

A data frame with 18 observations on the following 3 variables.

x a numeric vector

y a numeric vector

Data.Set a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.29)
str(ex12.29)
```

---

ex12.35

*R Data set: ex12.35*

---

**Description**

The ex12.35 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex12.35)
```

**Format**

A data frame with 10 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.35)
str(ex12.35)
```

---

ex12.36

*R Data set: ex12.36*

---

**Description**

The ex12.36 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex12.36)
```

**Format**

A data frame with 7 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.36)
str(ex12.36)
```

---

ex12.37

*R Data set: ex12.37*

---

**Description**

The ex12.37 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex12.37)
```

**Format**

A data frame with 10 observations on the following 2 variables.

pressure a numeric vector

time a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.37)
str(ex12.37)
```

---

ex12.46

*R Data set: ex12.46*

---

**Description**

The ex12.46 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex12.46)
```

**Format**

A data frame with 13 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.46)
str(ex12.46)
```

---

ex12.50

*R Data set: ex12.50*

---

**Description**

The ex12.50 data frame has 11 rows and 2 columns.

**Usage**

```
data(ex12.50)
```

**Format**

A data frame with 11 observations on the following 2 variables.

field a numeric vector

time a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.50)
str(ex12.50)
```

---

ex12.52

*R Data set: ex12.52*

---

**Description**

The ex12.52 data frame has 9 rows and 2 columns.

**Usage**

```
data(ex12.52)
```

**Format**

A data frame with 9 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.52)
str(ex12.52)
```

---

ex12.54

*R Data set: ex12.54*

---

**Description**

The ex12.54 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex12.54)
```

**Format**

A data frame with 14 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.54)
str(ex12.54)
```

---

ex12.55

*R Data set: ex12.55*

---

**Description**

The ex12.55 data frame has 12 rows and 2 columns.

**Usage**

```
data(ex12.55)
```

**Format**

A data frame with 12 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.55)  
str(ex12.55)
```

---

ex12.58

*R Data set: ex12.58*

---

**Description**

The ex12.58 data frame has 12 rows and 2 columns.

**Usage**

```
data(ex12.58)
```

**Format**

A data frame with 12 observations on the following 2 variables.

TOST a numeric vector

RBOT a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.58)
str(ex12.58)
```

---

ex12.59

*R Data set: ex12.59*

---

**Description**

The ex12.59 data frame has 18 rows and 2 columns.

**Usage**

```
data(ex12.59)
```

**Format**

A data frame with 18 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.59)
str(ex12.59)
```

---

ex12.61

*R Data set: ex12.61*

---

**Description**

The ex12.61 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex12.61)
```

**Format**

A data frame with 14 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.61)
str(ex12.61)
```

---

ex12.62

*R Data set: ex12.62*

---

**Description**

The ex12.62 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex12.62)
```

**Format**

A data frame with 14 observations on the following 2 variables.

Col1 a numeric vector

Col2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.62)
str(ex12.62)
```

---

ex12.63

*R Data set: ex12.63*

---

**Description**

The ex12.63 data frame has 6 rows and 2 columns.

**Usage**

```
data(ex12.63)
```

**Format**

A data frame with 6 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.63)
str(ex12.63)
```

---

ex12.65

*R Data set: ex12.65*

---

**Description**

The ex12.65 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex12.65)
```

**Format**

A data frame with 10 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex12.65)
str(ex12.65)
```

---

ex12.68

*R Data set: ex12.68*

---

**Description**

The ex12.68 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex12.68)
```

**Format**

A data frame with 8 observations on the following 2 variables.

RDF a numeric vector

eff a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.68)
str(ex12.68)
```

---

ex12.69

*R Data set: ex12.69*

---

**Description**

The ex12.69 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex12.69)
```

**Format**

A data frame with 13 observations on the following 2 variables.

drain.wt a numeric vector

Cl.trace a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.69)
str(ex12.69)
```

---

ex12.71

*R Data set: ex12.71*

---

**Description**

The ex12.71 data frame has 17 rows and 2 columns.

**Usage**

```
data(ex12.71)
```

**Format**

A data frame with 17 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.71)
str(ex12.71)
```

---

ex12.72

*R Data set: ex12.72*

---

**Description**

The ex12.72 data frame has 9 rows and 2 columns.

**Usage**

```
data(ex12.72)
```

**Format**

A data frame with 9 observations on the following 2 variables.

CO a numeric vector

NO3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.72)
str(ex12.72)
```

---

ex12.73

*R Data set: ex12.73*

---

**Description**

The ex12.73 data frame has 9 rows and 2 columns.

**Usage**

```
data(ex12.73)
```

**Format**

A data frame with 9 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.73)
str(ex12.73)
```

---

`ex12.75`*R Data set: ex12.75*

---

**Description**

The `ex12.75` data frame has 9 rows and 2 columns.

**Usage**

```
data(ex12.75)
```

**Format**

A data frame with 9 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.75)
str(ex12.75)
```

---

`ex12.82`*R Data set: ex12.82*

---

**Description**

The `ex12.82` data frame has 33 rows and 2 columns.

**Usage**

```
data(ex12.82)
```

**Format**

A data frame with 33 observations on the following 2 variables.

temp a numeric vector

removal a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.82)
str(ex12.82)
```

---

ex12.83

*R Data set: ex12.83*

---

**Description**

The ex12.83 data frame has 24 rows and 2 columns.

**Usage**

```
data(ex12.83)
```

**Format**

A data frame with 24 observations on the following 2 variables.

time a numeric vector

bloodgluc a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.83)
str(ex12.83)
```

---

ex12.84

*R Data set: ex12.84*

---

**Description**

The ex12.84 data frame has 20 rows and 2 columns.

**Usage**

```
data(ex12.84)
```

**Format**

A data frame with 20 observations on the following 2 variables.

HW a numeric vector

BOD a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex12.84)
str(ex12.84)
```

---

`ex13.02`*R Data set: ex13.02*

---

**Description**

The `ex13.02` data frame has 9 rows and 2 columns.

**Usage**

```
data(ex13.02)
```

**Format**

A data frame with 9 observations on the following 2 variables.

x a numeric vector

e a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.02)
str(ex13.02)
```

---

`ex13.04`*R Data set: ex13.04*

---

**Description**

The `ex13.04` data frame has 10 rows and 2 columns.

**Usage**

```
data(ex13.04)
```

**Format**

A data frame with 10 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.04)
str(ex13.04)
```

---

ex13.05

*R Data set: ex13.05*

---

**Description**

The ex13.05 data frame has 33 rows and 2 columns.

**Usage**

```
data(ex13.05)
```

**Format**

A data frame with 33 observations on the following 2 variables.

time a numeric vector

icethick a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.05)
str(ex13.05)
```

---

ex13.06

*R Data set: ex13.06*

---

**Description**

The ex13.06 data frame has 6 rows and 2 columns.

**Usage**

```
data(ex13.06)
```

**Format**

A data frame with 6 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.06)
str(ex13.06)
```

---

`ex13.07`*R Data set: ex13.07*

---

**Description**

The `ex13.07` data frame has 5 rows and 2 columns.

**Usage**

```
data(ex13.07)
```

**Format**

A data frame with 5 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.07)
str(ex13.07)
```

---

`ex13.08`*R Data set: ex13.08*

---

**Description**

The `ex13.08` data frame has 15 rows and 2 columns.

**Usage**

```
data(ex13.08)
```

**Format**

A data frame with 15 observations on the following 2 variables.

HR a numeric vector

VO2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.08)
str(ex13.08)
```

---

ex13.09

*R Data set: ex13.09*

---

**Description**

The ex13.09 data frame has 44 rows and 3 columns.

**Usage**

```
data(ex13.09)
```

**Format**

A data frame with 44 observations on the following 3 variables.

x a numeric vector

y a numeric vector

set a factor with levels a b c d

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.09)
str(ex13.09)
```

---

ex13.09a

*R Data set: ex13.09a*

---

**Description**

The ex13.09a data frame has 11 rows and 2 columns.

**Usage**

```
data(ex13.09a)
```

**Format**

A data frame with 11 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.09a)
str(ex13.09a)
```

---

`ex13.09b`*R Data set: ex13.09b*

---

**Description**

The `ex13.09b` data frame has 11 rows and 2 columns.

**Usage**

```
data(ex13.09b)
```

**Format**

A data frame with 11 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.09b)
str(ex13.09b)
```

---

`ex13.09c`*R Data set: ex13.09c*

---

**Description**

The `ex13.09c` data frame has 11 rows and 2 columns.

**Usage**

```
data(ex13.09c)
```

**Format**

A data frame with 11 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.09c)
str(ex13.09c)
```

---

ex13.09d

*R Data set: ex13.09d*

---

**Description**

The ex13.09d data frame has 11 rows and 2 columns.

**Usage**

```
data(ex13.09d)
```

**Format**

A data frame with 11 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.09d)
str(ex13.09d)
```

---

ex13.14

*R Data set: ex13.14*

---

**Description**

The ex13.14 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex13.14)
```

**Format**

A data frame with 14 observations on the following 2 variables.

Col1 a numeric vector

Col2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.14)
str(ex13.14)
```

---

`ex13.15`*R Data set: ex13.15*

---

**Description**

The `ex13.15` data frame has 8 rows and 2 columns.

**Usage**

```
data(ex13.15)
```

**Format**

A data frame with 8 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.15)
str(ex13.15)
```

---

`ex13.16`*R Data set: ex13.16*

---

**Description**

The `ex13.16` data frame has 12 rows and 2 columns.

**Usage**

```
data(ex13.16)
```

**Format**

A data frame with 12 observations on the following 2 variables.

Spectral.Index a numeric vector

ln.L178 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.16)
str(ex13.16)
```

---

ex13.17

*R Data set: ex13.17*

---

**Description**

The ex13.17 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex13.17)
```

**Format**

A data frame with 13 observations on the following 2 variables.

MassRate a numeric vector

FlameLen a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.17)
str(ex13.17)
```

---

ex13.18

*R Data set: ex13.18*

---

**Description**

The ex13.18 data frame has 19 rows and 2 columns.

**Usage**

```
data(ex13.18)
```

**Format**

A data frame with 19 observations on the following 2 variables.

Cycfail a numeric vector

Strampl a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.18)
str(ex13.18)
```

---

`ex13.19`*R Data set: ex13.19*

---

**Description**

The `ex13.19` data frame has 18 rows and 2 columns.

**Usage**

```
data(ex13.19)
```

**Format**

A data frame with 18 observations on the following 2 variables.

Temp a numeric vector

Lifetime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.19)
str(ex13.19)
```

---

`ex13.21`*R Data set: ex13.21*

---

**Description**

The `ex13.21` data frame has 8 rows and 2 columns.

**Usage**

```
data(ex13.21)
```

**Format**

A data frame with 8 observations on the following 2 variables.

thicknss a numeric vector

conduct a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.21)
str(ex13.21)
```

---

ex13.24

*R Data set: ex13.24*

---

**Description**

The ex13.24 data frame has 22 rows and 2 columns.

**Usage**

```
data(ex13.24)
```

**Format**

A data frame with 22 observations on the following 2 variables.

Kyphosis a numeric vector

No.kyphosis a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.24)
str(ex13.24)
```

---

ex13.25

*R Data set: ex13.25*

---

**Description**

The ex13.25 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex13.25)
```

**Format**

A data frame with 14 observations on the following 2 variables.

Success a numeric vector

Failure a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.25)
str(ex13.25)
```

---

`ex13.27`*R Data set: ex13.27*

---

**Description**

The `ex13.27` data frame has 8 rows and 2 columns.

**Usage**

```
data(ex13.27)
```

**Format**

A data frame with 8 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.27)
str(ex13.27)
```

---

`ex13.29`*R Data set: ex13.29*

---

**Description**

The `ex13.29` data frame has 5 rows and 2 columns.

**Usage**

```
data(ex13.29)
```

**Format**

A data frame with 5 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.29)
str(ex13.29)
```

---

ex13.30

*R Data set: ex13.30*

---

**Description**

The ex13.30 data frame has 14 rows and 2 columns.

**Usage**

```
data(ex13.30)
```

**Format**

A data frame with 14 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.30)
str(ex13.30)
```

---

ex13.31

*R Data set: ex13.31*

---

**Description**

The ex13.31 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex13.31)
```

**Format**

A data frame with 7 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.31)
str(ex13.31)
```

---

ex13.32

*R Data set: ex13.32*

---

**Description**

The ex13.32 data frame has 16 rows and 2 columns.

**Usage**

```
data(ex13.32)
```

**Format**

A data frame with 16 observations on the following 2 variables.

X a numeric vector

Y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.32)
str(ex13.32)
```

---

ex13.33

*R Data set: ex13.33*

---

**Description**

The ex13.33 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex13.33)
```

**Format**

A data frame with 7 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.33)
str(ex13.33)
```

---

ex13.34

*R Data set: ex13.34*

---

**Description**

The ex13.34 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex13.34)
```

**Format**

A data frame with 13 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.34)
str(ex13.34)
```

---

ex13.35

*R Data set: ex13.35*

---

**Description**

The ex13.35 data frame has 5 rows and 2 columns.

**Usage**

```
data(ex13.35)
```

**Format**

A data frame with 5 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.35)
str(ex13.35)
```

---

`ex13.47`*R Data set: ex13.47*

---

**Description**

The `ex13.47` data frame has 30 rows and 6 columns.

**Usage**

```
data(ex13.47)
```

**Format**

A data frame with 30 observations on the following 6 variables.

Row a numeric vector

Plastics a numeric vector

Paper a numeric vector

Garbage a numeric vector

Water a numeric vector

Energy.content a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.47)  
str(ex13.47)
```

---

ex13.48

*R Data set: ex13.48*

---

**Description**

The ex13.48 data frame has 15 rows and 4 columns.

**Usage**

```
data(ex13.48)
```

**Format**

A data frame with 15 observations on the following 4 variables.

x1 a numeric vector

x2 a numeric vector

x3 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.48)
str(ex13.48)
```

---

ex13.49

*R Data set: ex13.49*

---

**Description**

The ex13.49 data frame has 12 rows and 3 columns.

**Usage**

```
data(ex13.49)
```

**Format**

A data frame with 12 observations on the following 3 variables.

x1 a numeric vector

x2 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.49)
str(ex13.49)
```

---

ex13.50

*R Data set: ex13.50*

---

**Description**

The ex13.50 data frame has 14 rows and 3 columns.

**Usage**

```
data(ex13.50)
```

**Format**

A data frame with 14 observations on the following 3 variables.

y a numeric vector

x1 a numeric vector

x2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.50)
str(ex13.50)
```

---

ex13.51

*R Data set: ex13.51*

---

**Description**

The ex13.51 data frame has 14 rows and 3 columns.

**Usage**

```
data(ex13.51)
```

**Format**

A data frame with 14 observations on the following 3 variables.

shear a numeric vector

depth a numeric vector

water a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex13.51)
str(ex13.51)
```

---

ex13.52

*R Data set: ex13.52*

---

**Description**

The ex13.52 data frame has 20 rows and 4 columns.

**Usage**

```
data(ex13.52)
```

**Format**

A data frame with 20 observations on the following 4 variables.

Linoleic a numeric vector

Kerosene a numeric vector

Antiox a numeric vector

Betacarotene a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.52)
str(ex13.52)
```

---

ex13.53

*R Data set: ex13.53*

---

**Description**

The ex13.53 data frame has 17 rows and 3 columns.

**Usage**

```
data(ex13.53)
```

**Format**

A data frame with 17 observations on the following 3 variables.

x1 a numeric vector

x2 a numeric vector

filth a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.53)
str(ex13.53)
```

---

ex13.54

*R Data set: ex13.54*

---

**Description**

The ex13.54 data frame has 31 rows and 5 columns.

**Usage**

```
data(ex13.54)
```

**Format**

A data frame with 31 observations on the following 5 variables.

Bright a numeric vector

H2O2 a numeric vector

NaOH a numeric vector

Silicate a numeric vector

Tempture a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.54)
str(ex13.54)
```

---

ex13.55

*R Data set: ex13.55*

---

**Description**

The ex13.55 data frame has 10 rows and 3 columns.

**Usage**

```
data(ex13.55)
```

**Format**

A data frame with 10 observations on the following 3 variables.

q a numeric vector  
a a numeric vector  
b a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.55)
str(ex13.55)
```

---

`ex13.64`*R Data set: ex13.64*

---

**Description**

The `ex13.64` data frame has 16 rows and 2 columns.

**Usage**

```
data(ex13.64)
```

**Format**

A data frame with 16 observations on the following 2 variables.

`Log.edges` a numeric vector

`Log.time` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.64)
str(ex13.64)
```

---

`ex13.65`*R Data set: ex13.65*

---

**Description**

The `ex13.65` data frame has 18 rows and 2 columns.

**Usage**

```
data(ex13.65)
```

**Format**

A data frame with 18 observations on the following 2 variables.

Pressure a numeric vector

Temperature a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.65)
str(ex13.65)
```

---

ex13.66

*R Data set: ex13.66*

---

**Description**

The ex13.66 data frame has 9 rows and 3 columns.

**Usage**

```
data(ex13.66)
```

**Format**

A data frame with 9 observations on the following 3 variables.

x1.in a numeric vector

x2.in a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.66)
str(ex13.66)
```

---

ex13.67

*R Data set: ex13.67*

---

**Description**

The ex13.67 data frame has 32 rows and 7 columns.

**Usage**

```
data(ex13.67)
```

**Format**

A data frame with 32 observations on the following 7 variables.

Obs a numeric vector

pdconc a numeric vector

niconc a numeric vector

pH a numeric vector

temp a numeric vector

currdens a numeric vector

pallcont a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.67)
str(ex13.67)
```

---

`ex13.68`*R Data set: ex13.68*

---

**Description**

The `ex13.68` data frame has 16 rows and 2 columns.

**Usage**

```
data(ex13.68)
```

**Format**

A data frame with 16 observations on the following 2 variables.

`Log.edges` a numeric vector

`Log.time` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.68)
str(ex13.68)
```

---

`ex13.69`*R Data set: ex13.69*

---

**Description**

The `ex13.69` data frame has 8 rows and 2 columns.

**Usage**

```
data(ex13.69)
```

**Format**

A data frame with 8 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.69)
```

```
str(ex13.69)
```

---

ex13.70

*R Data set: ex13.70*

---

**Description**

The ex13.70 data frame has 9 rows and 3 columns.

**Usage**

```
data(ex13.70)
```

**Format**

A data frame with 9 observations on the following 3 variables.

x1 a numeric vector

x2 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.70)
str(ex13.70)
```

---

ex13.71

*R Data set: ex13.71*

---

**Description**

The ex13.71 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex13.71)
```

**Format**

A data frame with 10 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.71)
str(ex13.71)
```

---

ex13.72

*R Data set: ex13.72*

---

**Description**

The ex13.72 data frame has 9 rows and 3 columns.

**Usage**

```
data(ex13.72)
```

**Format**

A data frame with 9 observations on the following 3 variables.

x1 a numeric vector

x2 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.72)
str(ex13.72)
```

---

ex13.73

*R Data set: ex13.73*

---

**Description**

The ex13.73 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex13.73)
```

**Format**

A data frame with 8 observations on the following 2 variables.

power a numeric vector

freq a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.73)
str(ex13.73)
```

---

ex13.74

*R Data set: ex13.74*

---

**Description**

The ex13.74 data frame has 12 rows and 2 columns.

**Usage**

```
data(ex13.74)
```

**Format**

A data frame with 12 observations on the following 2 variables.

log.con a numeric vector

Li20 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.74)
str(ex13.74)
```

---

ex13.75

*R Data set: ex13.75*

---

**Description**

The ex13.75 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex13.75)
```

**Format**

A data frame with 10 observations on the following 2 variables.

height a numeric vector

log.Mn a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.75)
str(ex13.75)
```

---

ex13.76

*R Data set: ex13.76*

---

**Description**

The ex13.76 data frame has 9 rows and 3 columns.

**Usage**

```
data(ex13.76)
```

**Format**

A data frame with 9 observations on the following 3 variables.

x1 a numeric vector

x2 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex13.76)  
str(ex13.76)
```

---

ex14.09

*R Data set: ex14.09*

---

**Description**

The ex14.09 data frame has 40 rows and 1 column.

**Usage**

```
data(ex14.09)
```

**Format**

A data frame with 40 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.09)
str(ex14.09)
```

---

ex14.11

*R Data set: ex14.11*

---

**Description**

The ex14.11 data frame has 45 rows and 1 column.

**Usage**

```
data(ex14.11)
```

**Format**

A data frame with 45 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.11)
str(ex14.11)
```

---

`ex14.12`*R Data set: ex14.12*

---

**Description**

The ex14.12 data frame has 4 rows and 2 columns.

**Usage**

```
data(ex14.12)
```

**Format**

A data frame with 4 observations on the following 2 variables.

male.children a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.12)
str(ex14.12)
```

---

`ex14.13`*R Data set: ex14.13*

---

**Description**

The ex14.13 data frame has 3 rows and 2 columns.

**Usage**

```
data(ex14.13)
```

**Format**

A data frame with 3 observations on the following 2 variables.

ovaries.developed a numeric vector

Observed.count a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.13)
str(ex14.13)
```

---

ex14.14

*R Data set: ex14.14*

---

**Description**

The ex14.14 data frame has 12 rows and 2 columns.

**Usage**

```
data(ex14.14)
```

**Format**

A data frame with 12 observations on the following 2 variables.

x a numeric vector

observed a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.14)
str(ex14.14)
```

---

ex14.15

*R Data set: ex14.15*

---

**Description**

The ex14.15 data frame has 5 rows and 2 columns.

**Usage**

```
data(ex14.15)
```

**Format**

A data frame with 5 observations on the following 2 variables.

Number.defective a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.15)
str(ex14.15)
```

---

ex14.16

*R Data set: ex14.16*

---

**Description**

The ex14.16 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex14.16)
```

**Format**

A data frame with 10 observations on the following 2 variables.

Number.exchanges a numeric vector

Observed.counts a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.16)
str(ex14.16)
```

---

ex14.17

*R Data set: ex14.17*

---

**Description**

The ex14.17 data frame has 13 rows and 2 columns.

**Usage**

```
data(ex14.17)
```

**Format**

A data frame with 13 observations on the following 2 variables.

Number a numeric vector

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.17)
str(ex14.17)
```

---

ex14.18

*R Data set: ex14.18*

---

**Description**

The ex14.18 data frame has 5 rows and 2 columns.

**Usage**

```
data(ex14.18)
```

**Format**

A data frame with 5 observations on the following 2 variables.

Rate.per.day a factor with levels <100 .100-below .150 .150-below .200 .200-below .250 .250 or more

Frequency a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.18)
str(ex14.18)
```

---

ex14.20

*R Data set: ex14.20*

---

**Description**

The ex14.20 data frame has 23 rows and 1 column.

**Usage**

```
data(ex14.20)
```

**Format**

A data frame with 23 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.20)
str(ex14.20)
```

---

ex14.21

*R Data set: ex14.21*

---

**Description**

The ex14.21 data frame has 24 rows and 1 column.

**Usage**

```
data(ex14.21)
```

**Format**

A data frame with 24 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.21)
str(ex14.21)
```

---

ex14.22

*R Data set: ex14.22*

---

**Description**

The ex14.22 data frame has 25 rows and 1 column.

**Usage**

```
data(ex14.22)
```

**Format**

A data frame with 25 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.22)
str(ex14.22)
```

---

ex14.23

*R Data set: ex14.23*

---

**Description**

The ex14.23 data frame has 30 rows and 1 column.

**Usage**

```
data(ex14.23)
```

**Format**

A data frame with 30 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.23)
str(ex14.23)
```

---

ex14.26

*R Data set: ex14.26*

---

**Description**

The ex14.26 data frame has 7 rows and 3 columns.

**Usage**

```
data(ex14.26)
```

**Format**

A data frame with 7 observations on the following 3 variables.

C1 a factor with levels C1 Control Eight leaves removed Four leaves removed Six leaves removed Treatment Two leaves removed

C2 a factor with levels 141 20 24 25 28 C2 Matured

C3 a factor with levels 206 69 73 78 82 Aborted C3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.26)
str(ex14.26)
```

---

ex14.27

*R Data set: ex14.27*

---

**Description**

The ex14.27 data frame has 2 rows and 5 columns.

**Usage**

```
data(ex14.27)
```

**Format**

A data frame with 2 observations on the following 5 variables.

C1 a factor with levels Men Women

L.R a numeric vector

L.R.1 a numeric vector

L.R.2 a numeric vector

Sample.size a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.27)
str(ex14.27)
```

---

ex14.28

*R Data set: ex14.28*

---

**Description**

The ex14.28 data frame has 4 rows and 5 columns.

**Usage**

```
data(ex14.28)
```

**Format**

A data frame with 4 observations on the following 5 variables.

Trreatment a factor with levels Sham Solvent Thienylalanine Unhandled

No.response a numeric vector

Wild.running a numeric vector

Clonic.seizure a numeric vector

Tonic.seizure a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.28)
str(ex14.28)
```

---

ex14.29

*R Data set: ex14.29*

---

**Description**

The ex14.29 data frame has 6 rows and 4 columns.

**Usage**

```
data(ex14.29)
```

**Format**

A data frame with 6 observations on the following 4 variables.

Male.genotype a numeric vector

M.M a numeric vector

M.F a numeric vector

F.F a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.29)
str(ex14.29)
```

---

`ex14.30`*R Data set: ex14.30*

---

**Description**

The `ex14.30` data frame has 4 rows and 5 columns.

**Usage**

```
data(ex14.30)
```

**Format**

A data frame with 4 observations on the following 5 variables.

C1 a factor with levels 1 2 3 Configuration

C2 a numeric vector

C3 a numeric vector

C4 a numeric vector

C5 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.30)
str(ex14.30)
```

---

ex14.31

*R Data set: ex14.31*

---

**Description**

The ex14.31 data frame has 12 rows and 3 columns.

**Usage**

```
data(ex14.31)
```

**Format**

A data frame with 12 observations on the following 3 variables.

count a numeric vector

Size a factor with levels Compact Fullsize Midsize Subcompact

dist a factor with levels 0-<10 10-<20 >=20

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.31)
str(ex14.31)
```

---

ex14.32

*R Data set: ex14.32*

---

**Description**

The ex14.32 data frame has 3 rows and 3 columns.

**Usage**

```
data(ex14.32)
```

**Format**

A data frame with 3 observations on the following 3 variables.

Liberal a numeric vector

Consrvtv a numeric vector

Other a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.32)
str(ex14.32)
```

---

ex14.38

*R Data set: ex14.38*

---

**Description**

The ex14.38 data frame has 3 rows and 3 columns.

**Usage**

```
data(ex14.38)
```

**Format**

A data frame with 3 observations on the following 3 variables.

Treatment a factor with levels Control New oil Old oil

Parasitized a numeric vector

Nonparasitized a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.38)
str(ex14.38)
```

---

ex14.40

*R Data set: ex14.40*

---

**Description**

The ex14.40 data frame has 6 rows and 3 columns.

**Usage**

```
data(ex14.40)
```

**Format**

A data frame with 6 observations on the following 3 variables.

C1 a factor with levels Baseball Basketball C1 Football Hockey Sport

C2 a factor with levels 150 65 72 86 C2 Leader Wins

C3 a factor with levels 15 21 39 6 C3 Leader Loses

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.40)
str(ex14.40)
```

---

ex14.41

*R Data set: ex14.41*

---

**Description**

The ex14.41 data frame has 3 rows and 3 columns.

**Usage**

```
data(ex14.41)
```

**Format**

A data frame with 3 observations on the following 3 variables.

Never a numeric vector

Occasion a numeric vector

Regular a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.41)
str(ex14.41)
```

---

ex14.42

*R Data set: ex14.42*

---

**Description**

The ex14.42 data frame has 4 rows and 4 columns.

**Usage**

```
data(ex14.42)
```

**Format**

A data frame with 4 observations on the following 4 variables.

Age a factor with levels 15-54 55-64 65-74 Over 74

Home a numeric vector

Acute a numeric vector

Chronic a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.42)
str(ex14.42)
```

---

 ex14.44

*R Data set: ex14.44*


---

**Description**

The ex14.44 data frame has 4 rows and 6 columns.

**Usage**

```
data(ex14.44)
```

**Format**

A data frame with 4 observations on the following 6 variables.

C1 a factor with levels Age C1 Number in Sample Number who want item pricing

C2 a factor with levels 127 150 <30 C2

C3 a factor with levels 118 141 30-39 C3

C4 a factor with levels 40-49 77 82 C4

C5 a factor with levels 50-59 61 63 C5

C6 a factor with levels 41 49 >60 C6

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex14.44)
str(ex14.44)
```

---

ex15.01

*R Data set: ex15.01*

---

**Description**

The ex15.01 data frame has 12 rows and 1 column.

**Usage**

```
data(ex15.01)
```

**Format**

A data frame with 12 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.01)
str(ex15.01)
```

---

ex15.03

*R Data set: ex15.03*

---

**Description**

The ex15.03 data frame has 14 rows and 1 column.

**Usage**

```
data(ex15.03)
```

**Format**

A data frame with 14 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.03)
str(ex15.03)
```

---

ex15.04

*R Data set: ex15.04*

---

**Description**

The ex15.04 data frame has 15 rows and 1 column.

**Usage**

```
data(ex15.04)
```

**Format**

A data frame with 15 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.04)
str(ex15.04)
```

---

ex15.05

*R Data set: ex15.05*

---

**Description**

The ex15.05 data frame has 12 rows and 3 columns.

**Usage**

```
data(ex15.05)
```

**Format**

A data frame with 12 observations on the following 3 variables.

Sample a numeric vector

Gravimetric a numeric vector

Spectrophotometric a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.05)
str(ex15.05)
```

---

ex15.08

*R Data set: ex15.08*

---

**Description**

The ex15.08 data frame has 25 rows and 1 column.

**Usage**

```
data(ex15.08)
```

**Format**

A data frame with 25 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.08)
str(ex15.08)
```

---

ex15.10

*R Data set: ex15.10*

---

**Description**

The ex15.10 data frame has 5 rows and 2 columns.

**Usage**

```
data(ex15.10)
```

**Format**

A data frame with 5 observations on the following 2 variables.

adhesv.1 a numeric vector

adhesv.2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.10)
str(ex15.10)
```

---

ex15.11

*R Data set: ex15.11*

---

**Description**

The ex15.11 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex15.11)
```

**Format**

A data frame with 8 observations on the following 2 variables.

Oak a numeric vector

Pine a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.11)
str(ex15.11)
```

---

ex15.12

*R Data set: ex15.12*

---

**Description**

The ex15.12 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex15.12)
```

**Format**

A data frame with 8 observations on the following 2 variables.

Original.process a numeric vector

Modified.process a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.12)
str(ex15.12)
```

---

ex15.13

*R Data set: ex15.13*

---

**Description**

The ex15.13 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex15.13)
```

**Format**

A data frame with 10 observations on the following 2 variables.

Orange.juice a numeric vector

Ascorbic.acid a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.13)
str(ex15.13)
```

---

ex15.14

*R Data set: ex15.14*

---

**Description**

The ex15.14 data frame has 10 rows and 2 columns.

**Usage**

```
data(ex15.14)
```

**Format**

A data frame with 10 observations on the following 2 variables.

Orange.juice a numeric vector

Ascorbic.acid a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.14)
str(ex15.14)
```

---

ex15.15

*R Data set: ex15.15*

---

**Description**

The ex15.15 data frame has 8 rows and 2 columns.

**Usage**

```
data(ex15.15)
```

**Format**

A data frame with 8 observations on the following 2 variables.

Unexposed a numeric vector

Exposed a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.15)
str(ex15.15)
```

---

ex15.23

*R Data set: ex15.23*

---

**Description**

The ex15.23 data frame has 5 rows and 4 columns.

**Usage**

```
data(ex15.23)
```

**Format**

A data frame with 5 observations on the following 4 variables.

Region.1 a numeric vector

Region.2 a numeric vector

Region.3 a numeric vector

Region.4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.23)
str(ex15.23)
```

---

ex15.24

*R Data set: ex15.24*

---

**Description**

The ex15.24 data frame has 9 rows and 4 columns.

**Usage**

```
data(ex15.24)
```

**Format**

A data frame with 9 observations on the following 4 variables.

fasting a numeric vector

X23.protein a numeric vector

X32.protein a numeric vector

X67.protein a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.24)
str(ex15.24)
```

---

ex15.25

*R Data set: ex15.25*

---

**Description**

The ex15.25 data frame has 10 rows and 3 columns.

**Usage**

```
data(ex15.25)
```

**Format**

A data frame with 10 observations on the following 3 variables.

Group.1 a numeric vector

Group.2 a numeric vector

Group.3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.25)
str(ex15.25)
```

---

ex15.26

*R Data set: ex15.26*

---

**Description**

The ex15.26 data frame has 10 rows and 5 columns.

**Usage**

```
data(ex15.26)
```

**Format**

A data frame with 10 observations on the following 5 variables.

Blocks a numeric vector

A a numeric vector

B a numeric vector

C a numeric vector

D a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.26)
str(ex15.26)
```

---

ex15.27

*R Data set: ex15.27*

---

**Description**

The ex15.27 data frame has 10 rows and 4 columns.

**Usage**

```
data(ex15.27)
```

**Format**

A data frame with 10 observations on the following 4 variables.

Dog a numeric vector

Isoflurane a numeric vector

Halothane a numeric vector

Cyclopropane a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex15.27)
str(ex15.27)
```

---

ex15.28

*R Data set: ex15.28*

---

**Description**

The ex15.28 data frame has 8 rows and 3 columns.

**Usage**

```
data(ex15.28)
```

**Format**

A data frame with 8 observations on the following 3 variables.

Subject a numeric vector

Potato a numeric vector

Rice a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.28)
str(ex15.28)
```

---

ex15.29

*R Data set: ex15.29*

---

**Description**

The ex15.29 data frame has 10 rows and 4 columns.

**Usage**

```
data(ex15.29)
```

**Format**

A data frame with 10 observations on the following 4 variables.

C1 a numeric vector

C2 a numeric vector

C3 a numeric vector

C4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.29)
str(ex15.29)
```

---

ex15.30

*R Data set: ex15.30*

---

**Description**

The ex15.30 data frame has 5 rows and 4 columns.

**Usage**

```
data(ex15.30)
```

**Format**

A data frame with 5 observations on the following 4 variables.

Treatment.I a numeric vector

Treatment.II a numeric vector

Treatment.III a numeric vector

Treatment.IV a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.30)
str(ex15.30)
```

---

ex15.32

*R Data set: ex15.32*

---

**Description**

The ex15.32 data frame has 7 rows and 2 columns.

**Usage**

```
data(ex15.32)
```

**Format**

A data frame with 7 observations on the following 2 variables.

Lateral a numeric vector

Diagonal a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.32)
str(ex15.32)
```

---

ex15.33

*R Data set: ex15.33*

---

**Description**

The ex15.33 data frame has 20 rows and 1 column.

**Usage**

```
data(ex15.33)
```

**Format**

A data frame with 20 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.33)
str(ex15.33)
```

---

ex15.35

*R Data set: ex15.35*

---

**Description**

The ex15.35 data frame has 5 rows and 2 columns.

**Usage**

```
data(ex15.35)
```

**Format**

A data frame with 5 observations on the following 2 variables.

SIDS a numeric vector

Control a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex15.35)
str(ex15.35)
```

---

ex16.06

*R Data set: ex16.06*

---

**Description**

The ex16.06 data frame has 22 rows and 5 columns.

**Usage**

```
data(ex16.06)
```

**Format**

A data frame with 22 observations on the following 5 variables.

Obs.1 a numeric vector

Obs.2 a numeric vector

Obs.3 a numeric vector

Obs.4 a numeric vector

Obs.5 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex16.06)
str(ex16.06)
```

---

`ex16.09`*R Data set: ex16.09*

---

**Description**

The `ex16.09` data frame has 24 rows and 2 columns.

**Usage**

```
data(ex16.09)
```

**Format**

A data frame with 24 observations on the following 2 variables.

`xbar` a numeric vector

`stderr` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex16.09)
str(ex16.09)
```

---

`ex16.14`*R Data set: ex16.14*

---

**Description**

The `ex16.14` data frame has 24 rows and 1 column.

**Usage**

```
data(ex16.14)
```

**Format**

A data frame with 24 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex16.14)
str(ex16.14)
```

---

ex16.25

*R Data set: ex16.25*

---

**Description**

The ex16.25 data frame has 22 rows and 3 columns.

**Usage**

```
data(ex16.25)
```

**Format**

A data frame with 22 observations on the following 3 variables.

C1 a factor with levels 1 10 11 12 13 14 15 16 17 18 19 2 20 3 4 5 6 7 8 9 C1 Panel

C2 a factor with levels 0.6 0.8 1 Area Examined C2

C3 a factor with levels 1 10 12 2 3 4 5 6 # Blemishes C3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex16.25)
str(ex16.25)
```

---

ex16.41

*R Data set: ex16.41*

---

**Description**

The ex16.41 data frame has 22 rows and 3 columns.

**Usage**

```
data(ex16.41)
```

**Format**

A data frame with 22 observations on the following 3 variables.

C1 a numeric vector

C2 a numeric vector

C3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(ex16.41)
str(ex16.41)
```

---

ex16.43

*R Data set: ex16.43*

---

**Description**

The ex16.43 data frame has 20 rows and 3 columns.

**Usage**

```
data(ex16.43)
```

**Format**

A data frame with 20 observations on the following 3 variables.

Col1 a numeric vector

Col2 a numeric vector

Col3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(ex16.43)  
str(ex16.43)
```

---

xmp01.01

*R Data set: xmp01.01*

---

**Description**

The xmp01.01 data frame has 36 rows and 1 column.

**Usage**

```
data(xmp01.01)
```

**Format**

A data frame with 36 observations on the following variable.

temp a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.01)
str(xmp01.01)
```

---

xmp01.02

*R Data set: xmp01.02*

---

**Description**

The xmp01.02 data frame has 27 rows and 1 column.

**Usage**

```
data(xmp01.02)
```

**Format**

A data frame with 27 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.02)
str(xmp01.02)
```

---

xmp01.05

*R Data set: xmp01.05*

---

**Description**

The xmp01.05 data frame has 140 rows and 1 column.

**Usage**

```
data(xmp01.05)
```

**Format**

A data frame with 140 observations on the following variable.

bingePct a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.05)
str(xmp01.05)
```

---

`xmp01.06`*R Data set: xmp01.06*

---

**Description**

The `xmp01.06` data frame has 40 rows and 1 column.

**Usage**

```
data(xmp01.06)
```

**Format**

A data frame with 40 observations on the following variable.

`yardage` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.06)
str(xmp01.06)
```

---

`xmp01.08`*R Data set: xmp01.08*

---

**Description**

a data set

**Usage**

```
data(xmp01.08)
```

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.08)
str(xmp01.08)
```

---

xmp01.09

*R Data set: xmp01.09*

---

**Description**

The xmp01.09 data frame has 90 rows and 1 column.

**Usage**

```
data(xmp01.09)
```

**Format**

A data frame with 90 observations on the following variable.

consump a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.09)
str(xmp01.09)
```

---

`xmp01.10`*R Data set: xmp01.10*

---

**Description**

The `xmp01.10` data frame has 48 rows and 1 column.

**Usage**

```
data(xmp01.10)
```

**Format**

A data frame with 48 observations on the following variable.

`strength` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.10)
str(xmp01.10)
```

---

`xmp01.11`*R Data set: xmp01.11*

---

**Description**

The `xmp01.11` data frame has 48 rows and 1 column.

**Usage**

```
data(xmp01.11)
```

**Format**

A data frame with 48 observations on the following variable.

`strength` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.11)
str(xmp01.11)
```

---

xmp01.12

*R Data set: xmp01.12*

---

**Description**

The xmp01.12 data frame has 21 rows and 1 column.

**Usage**

```
data(xmp01.12)
```

**Format**

A data frame with 21 observations on the following variable.

crackLength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.12)
str(xmp01.12)
```

---

`xmp01.13`*R Data set: xmp01.13*

---

**Description**

The `xmp01.13` data frame has 12 rows and 1 column.

**Usage**

```
data(xmp01.13)
```

**Format**

A data frame with 12 observations on the following variable.

`concentration` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.13)
str(xmp01.13)
```

---

`xmp01.14`*R Data set: xmp01.14*

---

**Description**

The `xmp01.14` data frame has 24 rows and 1 column.

**Usage**

```
data(xmp01.14)
```

**Format**

A data frame with 24 observations on the following variable.

`copper` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.14)
str(xmp01.14)
```

---

xmp01.15

*R Data set: xmp01.15*

---

**Description**

The xmp01.15 data frame has 11 rows and 1 column.

**Usage**

```
data(xmp01.15)
```

**Format**

A data frame with 11 observations on the following variable.

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.15)
str(xmp01.15)
```

---

`xmp01.16`*R Data set: xmp01.16*

---

**Description**

A data set

**Usage**

```
data(xmp01.16)
```

**Details**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.16)
str(xmp01.16)
```

---

`xmp01.17`*R Data set: xmp01.17*

---

**Description**

The `xmp01.17` data frame has 19 rows and 1 column.

**Usage**

```
data(xmp01.17)
```

**Format**

A data frame with 19 observations on the following variable.

`depth` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.17)
str(xmp01.17)
```

---

xmp01.18

*R Data set: xmp01.18*

---

**Description**

The xmp01.18 data frame has 25 rows and 1 column.

**Usage**

```
data(xmp01.18)
```

**Format**

A data frame with 25 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp01.18)
str(xmp01.18)
```

---

`xmp04.28`*R Data set: xmp04.28*

---

**Description**

The `xmp04.28` data frame has 10 rows and 2 columns.

**Usage**

```
data(xmp04.28)
```

**Format**

A data frame with 10 observations on the following 2 variables.

`observation` a numeric vector

`z.percentile` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp04.28)
str(xmp04.28)
```

---

`xmp04.29`*R Data set: xmp04.29*

---

**Description**

The `xmp04.29` data frame has 10 rows and 1 column.

**Usage**

```
data(xmp04.29)
```

**Format**

A data frame with 10 observations on the following variable.

meas.err a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp04.29)
str(xmp04.29)
```

---

xmp04.30

*R Data set: xmp04.30*

---

**Description**

The xmp04.30 data frame has 20 rows and 2 columns.

**Usage**

```
data(xmp04.30)
```

**Format**

A data frame with 20 observations on the following 2 variables.

Voltage a numeric vector

z.percentile a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp04.30)
str(xmp04.30)
```

---

xmp04.31

*R Data set: xmp04.31*

---

**Description**

The xmp04.31 data frame has 10 rows and 1 column.

**Usage**

```
data(xmp04.31)
```

**Format**

A data frame with 10 observations on the following variable.

lifetime a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp04.31)
str(xmp04.31)
```

---

`xmp06.02`*R Data set: xmp06.02*

---

**Description**

The `xmp06.02` data frame has 20 rows and 1 column.

**Usage**

```
data(xmp06.02)
```

**Format**

A data frame with 20 observations on the following variable.

Voltage a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp06.02)
str(xmp06.02)
```

---

`xmp06.03`*R Data set: xmp06.03*

---

**Description**

The `xmp06.03` data frame has 8 rows and 1 column.

**Usage**

```
data(xmp06.03)
```

**Format**

A data frame with 8 observations on the following variable.

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp06.03)
str(xmp06.03)
```

---

xmp06.13

*R Data set: xmp06.13*

---

**Description**

The xmp06.13 data frame has 20 rows and 1 column.

**Usage**

```
data(xmp06.13)
```

**Format**

A data frame with 20 observations on the following variable.

Survival a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp06.13)
str(xmp06.13)
```

---

xmp06.14

*R Data set: xmp06.14*

---

**Description**

The xmp06.14 data frame has 420 rows and 1 column.

**Usage**

```
data(xmp06.14)
```

**Format**

A data frame with 420 observations on the following variable.

goals a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp06.14)
str(xmp06.14)
```

---

xmp07.06

*R Data set: xmp07.06*

---

**Description**

The xmp07.06 data frame has 48 rows and 1 column.

**Usage**

```
data(xmp07.06)
```

**Format**

A data frame with 48 observations on the following variable.

Voltage a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp07.06)
str(xmp07.06)
```

---

xmp07.11

*R Data set: xmp07.11*

---

**Description**

The xmp07.11 data frame has 16 rows and 1 column.

**Usage**

```
data(xmp07.11)
```

**Format**

A data frame with 16 observations on the following variable.

Elasticity a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp07.11)
str(xmp07.11)
```

---

xmp07.15

*R Data set: xmp07.15*

---

**Description**

The xmp07.15 data frame has 17 rows and 1 column.

**Usage**

```
data(xmp07.15)
```

**Format**

A data frame with 17 observations on the following variable.

voltage a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp07.15)
str(xmp07.15)
```

---

xmp08.08

*R Data set: xmp08.08*

---

**Description**

The xmp08.08 data frame has 52 rows and 1 column.

**Usage**

```
data(xmp08.08)
```

**Format**

A data frame with 52 observations on the following variable.

DCP a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp08.08)
str(xmp08.08)
```

---

xmp08.09

*R Data set: xmp08.09*

---

**Description**

The xmp08.09 data frame has 5 rows and 1 column.

**Usage**

```
data(xmp08.09)
```

**Format**

A data frame with 5 observations on the following variable.

MAWL a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp08.09)
str(xmp08.09)
```

---

xmp09.04

*R Data set: xmp09.04*

---

**Description**

The xmp09.04 data frame has 2 rows and 4 columns.

**Usage**

```
data(xmp09.04)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Type a factor with levels Graded No-fines

Sample.Size a numeric vector

Sample.Average.Conductivity a numeric vector

Sample.Standard.Deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.04)
str(xmp09.04)
```

---

xmp09.06

*R Data set: xmp09.06*

---

**Description**

The xmp09.06 data frame has 2 rows and 4 columns.

**Usage**

```
data(xmp09.06)
```

**Format**

A data frame with 2 observations on the following 4 variables.

Fabric.Type a factor with levels Cotton Triacetate

Sample.Size a numeric vector

Sample.Mean a numeric vector

Sample.Standard.Deviation a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.06)
str(xmp09.06)
```

---

xmp09.07

*R Data set: xmp09.07*

---

**Description**

The xmp09.07 data frame has 18 rows and 2 columns.

**Usage**

```
data(xmp09.07)
```

**Format**

A data frame with 18 observations on the following 2 variables.

strength a numeric vector

type a factor with levels fused nofusion

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.07)
str(xmp09.07)
```

---

xmp09.08

*R Data set: xmp09.08*

---

**Description**

The xmp09.08 data frame has 6 rows and 2 columns.

**Usage**

```
data(xmp09.08)
```

**Format**

A data frame with 6 observations on the following 2 variables.

bottom a numeric vector

surface a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.08)
str(xmp09.08)
```

---

`xmp09.09`*R Data set: xmp09.09*

---

**Description**

The `xmp09.09` data frame has 16 rows and 4 columns.

**Usage**

```
data(xmp09.09)
```

**Format**

A data frame with 16 observations on the following 4 variables.

Subject a numeric vector

Before a numeric vector

After a numeric vector

Difference a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.09)
str(xmp09.09)
```

---

`xmp09.10`*R Data set: xmp09.10*

---

**Description**

The `xmp09.10` data frame has 13 rows and 2 columns.

**Usage**

```
data(xmp09.10)
```

**Format**

A data frame with 13 observations on the following 2 variables.

slide a numeric vector

digital a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp09.10)
str(xmp09.10)
```

---

xmp10.01

*R Data set: xmp10.01*

---

**Description**

The xmp10.01 data frame has 24 rows and 2 columns.

**Usage**

```
data(xmp10.01)
```

**Format**

A data frame with 24 observations on the following 2 variables.

C1 a numeric vector

C2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp10.01)
str(xmp10.01)
```

---

xmp10.03

*R Data set: xmp10.03*

---

**Description**

The xmp10.03 data frame has 15 rows and 2 columns.

**Usage**

```
data(xmp10.03)
```

**Format**

A data frame with 15 observations on the following 2 variables.

Soiling a numeric vector

Mixture a factor with levels 1 2 3

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp10.03)
str(xmp10.03)
```

---

xmp10.05

*R Data set: xmp10.05*

---

**Description**

The xmp10.05 data frame has 20 rows and 2 columns.

**Usage**

```
data(xmp10.05)
```

**Format**

A data frame with 20 observations on the following 2 variables.

REMtime a numeric vector

ethanol a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp10.05)  
str(xmp10.05)
```

---

xmp10.08

*R Data set: xmp10.08*

---

**Description**

The xmp10.08 data frame has 22 rows and 2 columns.

**Usage**

```
data(xmp10.08)
```

**Format**

A data frame with 22 observations on the following 2 variables.

elastic a numeric vector

type a factor with levels Die Permanent Plaster

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp10.08)
str(xmp10.08)
```

---

xmp10.10

*R Data set: xmp10.10*

---

**Description**

The xmp10.10 data frame has 18 rows and 2 columns.

**Usage**

```
data(xmp10.10)
```

**Format**

A data frame with 18 observations on the following 2 variables.

travel a numeric vector

Rail a factor with levels 1 2 3 4 5 6

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp10.10)
str(xmp10.10)
```

---

xmp11.01

*R Data set: xmp11.01*

---

**Description**

The xmp11.01 data frame has 12 rows and 3 columns.

**Usage**

```
data(xmp11.01)
```

**Format**

A data frame with 12 observations on the following 3 variables.

strength a numeric vector

brand a factor with levels 1 2 3

treatment a factor with levels 1 2 3 4

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.01)
str(xmp11.01)
```

---

`xmp11.05`*R Data set: xmp11.05*

---

**Description**

The `xmp11.05` data frame has 20 rows and 3 columns.

**Usage**

```
data(xmp11.05)
```

**Format**

A data frame with 20 observations on the following 3 variables.

`power` a numeric vector

`humid` an ordered factor with levels 1 < 2 < 3 < 4

`brand` a factor with levels 1 2 3 4 5

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.05)
str(xmp11.05)
```

---

`xmp11.06`*R Data set: xmp11.06*

---

**Description**

The `xmp11.06` data frame has 24 rows and 3 columns.

**Usage**

```
data(xmp11.06)
```

**Format**

A data frame with 24 observations on the following 3 variables.

Resp a numeric vector

Stimulus a factor with levels L1 L2 T L1+L2 L1+T L2+T

Subject a factor with levels 1 2 3 4

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.06)
str(xmp11.06)
```

---

xmp11.07

*R Data set: xmp11.07*

---

**Description**

The xmp11.07 data frame has 36 rows and 3 columns.

**Usage**

```
data(xmp11.07)
```

**Format**

A data frame with 36 observations on the following 3 variables.

Yield a numeric vector

Variety a factor with levels 1 2 3

Density a factor with levels 1 2 3 4

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.07)
str(xmp11.07)
```

---

xmp11.10

*R Data set: xmp11.10*

---

**Description**

The xmp11.10 data frame has 96 rows and 4 columns.

**Usage**

```
data(xmp11.10)
```

**Format**

A data frame with 96 observations on the following 4 variables.

Tempr a numeric vector

Period a numeric vector

Strain a numeric vector

Coat a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.10)
str(xmp11.10)
```

---

`xmp11.11`*R Data set: xmp11.11*

---

**Description**

The `xmp11.11` data frame has 36 rows and 4 columns.

**Usage**

```
data(xmp11.11)
```

**Format**

A data frame with 36 observations on the following 4 variables.

`abrasion` a numeric vector

`row` an ordered factor with levels 1 < 2 < 3 < 4 < 5 < 6

`column` an ordered factor with levels 1 < 2 < 3 < 4 < 5 < 6

`humidity` a factor with levels 25 percent 37 percent 50 percent 62 percent 75 percent 87 percent

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.11)
str(xmp11.11)
```

---

`xmp11.12`*R Data set: xmp11.12*

---

**Description**

The `xmp11.12` data frame has 8 rows and 4 columns.

**Usage**

```
data(xmp11.12)
```

**Format**

A data frame with 8 observations on the following 4 variables.

Age a numeric vector

Temperature a numeric vector

Soil.1 a numeric vector

Soil.2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp11.12)
str(xmp11.12)
```

---

`xmp12.01`*R Data set: xmp12.01*

---

**Description**

The `xmp12.01` data frame has 30 rows and 3 columns.

**Usage**

```
data(xmp12.01)
```

**Format**

A data frame with 30 observations on the following 3 variables.

Obs a numeric vector

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.01)
str(xmp12.01)
```

---

xmp12.02

*R Data set: xmp12.02*

---

**Description**

The xmp12.02 data frame has 19 rows and 2 columns.

**Usage**

```
data(xmp12.02)
```

**Format**

A data frame with 19 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.02)
str(xmp12.02)
```

---

xmp12.04

*R Data set: xmp12.04*

---

**Description**

The xmp12.04 data frame has 15 rows and 2 columns.

**Usage**

```
data(xmp12.04)
```

**Format**

A data frame with 15 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(xmp12.04)
str(xmp12.04)
```

---

xmp12.06

*R Data set: xmp12.06*

---

**Description**

The xmp12.06 data frame has 20 rows and 2 columns.

**Usage**

```
data(xmp12.06)
```

**Format**

A data frame with 20 observations on the following 2 variables.

moistcon a numeric vector

filtrate a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.06)
str(xmp12.06)
```

---

xmp12.08

*R Data set: xmp12.08*

---

**Description**

The xmp12.08 data frame has 14 rows and 2 columns.

**Usage**

```
data(xmp12.08)
```

**Format**

A data frame with 14 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.08)
str(xmp12.08)
```

---

xmp12.10

*R Data set: xmp12.10*

---

**Description**

The xmp12.10 data frame has 15 rows and 2 columns.

**Usage**

```
data(xmp12.10)
```

**Format**

A data frame with 15 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.10)
str(xmp12.10)
```

---

xmp12.11

*R Data set: xmp12.11*

---

**Description**

The xmp12.11 data frame has 15 rows and 2 columns.

**Usage**

```
data(xmp12.11)
```

**Format**

A data frame with 15 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.11)
str(xmp12.11)
```

---

`xmp12.12`*R Data set: xmp12.12*

---

**Description**

The xmp12.12 data frame has 20 rows and 2 columns.

**Usage**

```
data(xmp12.12)
```

**Format**

A data frame with 20 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.12)
str(xmp12.12)
```

---

`xmp12.13`*R Data set: xmp12.13*

---

**Description**

The xmp12.13 data frame has 18 rows and 2 columns.

**Usage**

```
data(xmp12.13)
```

**Format**

A data frame with 18 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.13)
str(xmp12.13)
```

---

xmp12.14

*R Data set: xmp12.14*

---

**Description**

The xmp12.14 data frame has 8 rows and 2 columns.

**Usage**

```
data(xmp12.14)
```

**Format**

A data frame with 8 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(xmp12.14)
str(xmp12.14)
```

---

xmp12.15

*R Data set: xmp12.15*

---

**Description**

The xmp12.15 data frame has 8 rows and 2 columns.

**Usage**

```
data(xmp12.15)
```

**Format**

A data frame with 8 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.15)
str(xmp12.15)
```

---

xmp12.16

*R Data set: xmp12.16*

---

**Description**

The xmp12.16 data frame has 16 rows and 2 columns.

**Usage**

```
data(xmp12.16)
```

**Format**

A data frame with 16 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp12.16)
str(xmp12.16)
```

---

xmp13.01

*R Data set: xmp13.01*

---

**Description**

The xmp13.01 data frame has 14 rows and 2 columns.

**Usage**

```
data(xmp13.01)
```

**Format**

A data frame with 14 observations on the following 2 variables.

$x_i$  a numeric vector

$y_i$  a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.01)
str(xmp13.01)
```

---

xmp13.03

*R Data set: xmp13.03*

---

**Description**

The xmp13.03 data frame has 12 rows and 2 columns.

**Usage**

```
data(xmp13.03)
```

**Format**

A data frame with 12 observations on the following 2 variables.

$x$  a numeric vector

$y$  a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.03)
str(xmp13.03)
```

---

xmp13.04

*R Data set: xmp13.04*

---

**Description**

The xmp13.04 data frame has 11 rows and 2 columns.

**Usage**

```
data(xmp13.04)
```

**Format**

A data frame with 11 observations on the following 2 variables.

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.04)
str(xmp13.04)
```

---

`xmp13.06`*R Data set: xmp13.06*

---

**Description**

The `xmp13.06` data frame has 24 rows and 2 columns.

**Usage**

```
data(xmp13.06)
```

**Format**

A data frame with 24 observations on the following 2 variables.

Temperature a numeric vector

Failure a factor with levels N Y

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.06)
str(xmp13.06)
```

---

`xmp13.09`*R Data set: xmp13.09*

---

**Description**

The `xmp13.09` data frame has 8 rows and 2 columns.

**Usage**

```
data(xmp13.09)
```

**Format**

A data frame with 8 observations on the following 2 variables.

tempture a numeric vector

strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.09)
str(xmp13.09)
```

---

xmp13.10

*R Data set: xmp13.10*

---

**Description**

The xmp13.10 data frame has 8 rows and 3 columns.

**Usage**

```
data(xmp13.10)
```

**Format**

A data frame with 8 observations on the following 3 variables.

x a numeric vector

x a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.10)
str(xmp13.10)
```

---

xmp13.11

*R Data set: xmp13.11*

---

**Description**

The xmp13.11 data frame has 30 rows and 6 columns.

**Usage**

```
data(xmp13.11)
```

**Format**

A data frame with 30 observations on the following 6 variables.

Observation a numeric vector

Force a numeric vector

Power a numeric vector

Temperature a numeric vector

Time a numeric vector

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.11)
str(xmp13.11)
```

---

`xmp13.12`*R Data set: xmp13.12*

---

**Description**

The `xmp13.12` data frame has 30 rows and 6 columns.

**Usage**

```
data(xmp13.12)
```

**Format**

A data frame with 30 observations on the following 6 variables.

Observation a numeric vector

Force a numeric vector

Power a numeric vector

Temperature a numeric vector

Time a numeric vector

Strength a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.12)
str(xmp13.12)
```

---

`xmp13.13`*R Data set: xmp13.13*

---

**Description**

The xmp13.13 data frame has 9 rows and 5 columns.

**Usage**

```
data(xmp13.13)
```

**Format**

A data frame with 9 observations on the following 5 variables.

x1 a numeric vector

x2 a numeric vector

x1x2 a numeric vector

X28 a numeric vector

Absorbability a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.13)  
str(xmp13.13)
```

---

xmp13.15

*R Data set: xmp13.15*

---

**Description**

The xmp13.15 data frame has 13 rows and 3 columns.

**Usage**

```
data(xmp13.15)
```

**Format**

A data frame with 13 observations on the following 3 variables.

Iron.x1 a numeric vector

Aluminum.x2 a numeric vector

Adsorption.y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.15)  
str(xmp13.15)
```

---

xmp13.16

*R Data set: xmp13.16*

---

**Description**

The xmp13.16 data frame has 30 rows and 5 columns.

**Usage**

```
data(xmp13.16)
```

**Format**

A data frame with 30 observations on the following 5 variables.

x1 a numeric vector

x2 a numeric vector

x3 a numeric vector

x4 a numeric vector

y a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.16)
str(xmp13.16)
```

---

xmp13.18

*R Data set: xmp13.18*

---

**Description**

The xmp13.18 data frame has 27 rows and 3 columns.

**Usage**

```
data(xmp13.18)
```

**Format**

A data frame with 27 observations on the following 3 variables.

s a numeric vector

l.1000.s a numeric vector

w a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.18)
str(xmp13.18)
```

---

xmp13.19

*R Data set: xmp13.19*

---

**Description**

The xmp13.19 data frame has 31 rows and 5 columns.

**Usage**

```
data(xmp13.19)
```

**Format**

A data frame with 31 observations on the following 5 variables.

y a numeric vector

x1 a numeric vector

x2 a numeric vector

x.1 a numeric vector

x.2 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.19)
str(xmp13.19)
```

---

`xmp13.22`*R Data set: xmp13.22*

---

**Description**

The xmp13.22 data frame has 10 rows and 3 columns.

**Usage**

```
data(xmp13.22)
```

**Format**

A data frame with 10 observations on the following 3 variables.

Strength a numeric vector

Sp.grav a numeric vector

Moisture a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp13.22)
str(xmp13.22)
```

---

`xmp14.03`*R Data set: xmp14.03*

---

**Description**

The xmp14.03 data frame has 24 rows and 1 column.

**Usage**

```
data(xmp14.03)
```

**Format**

A data frame with 24 observations on the following variable.

onset a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp14.03)
str(xmp14.03)
```

---

xmp14.10

*R Data set: xmp14.10*

---

**Description**

The xmp14.10 data frame has 49 rows and 1 column.

**Usage**

```
data(xmp14.10)
```

**Format**

A data frame with 49 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp14.10)
str(xmp14.10)
```

---

xmp14.13

*R Data set: xmp14.13*

---

**Description**

The xmp14.13 data frame has 4 rows and 7 columns.

**Usage**

```
data(xmp14.13)
```

**Format**

A data frame with 4 observations on the following 7 variables.

Production.Line a numeric vector

Blemish a numeric vector

Crack a numeric vector

Location a numeric vector

Missing a numeric vector

Other a numeric vector

Size a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp14.13)
str(xmp14.13)
```

---

xmp14.14

*R Data set: xmp14.14*

---

**Description**

The xmp14.14 data frame has 3 rows and 3 columns.

**Usage**

```
data(xmp14.14)
```

**Format**

A data frame with 3 observations on the following 3 variables.

Substand a numeric vector

Standard a numeric vector

Modern a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp14.14)
str(xmp14.14)
```

---

xmp15.01

*R Data set: xmp15.01*

---

**Description**

The xmp15.01 data frame has 15 rows and 1 column.

**Usage**

```
data(xmp15.01)
```

**Format**

A data frame with 15 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.01)
str(xmp15.01)
```

---

xmp15.02

*R Data set: xmp15.02*

---

**Description**

The xmp15.02 data frame has 8 rows and 5 columns.

**Usage**

```
data(xmp15.02)
```

**Format**

A data frame with 8 observations on the following 5 variables.

Log a numeric vector

Solvent.1 a numeric vector

Solvent.2 a numeric vector

Difference a numeric vector

Signed.rank a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.02)
str(xmp15.02)
```

---

xmp15.03

*R Data set: xmp15.03*

---

**Description**

The xmp15.03 data frame has 25 rows and 2 columns.

**Usage**

```
data(xmp15.03)
```

**Format**

A data frame with 25 observations on the following 2 variables.

`xi` a numeric vector

`Signed.Rank` a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.03)
str(xmp15.03)
```

---

`xmp15.04`*R Data set: xmp15.04*

---

**Description**

The `xmp15.04` data frame has 7 rows and 2 columns.

**Usage**

```
data(xmp15.04)
```

**Format**

A data frame with 7 observations on the following 2 variables.

Polluted a numeric vector

Unpolluted a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.04)
str(xmp15.04)
```

---

`xmp15.06`*R Data set: xmp15.06*

---

**Description**

The `xmp15.06` data frame has 28 rows and 1 column.

**Usage**

```
data(xmp15.06)
```

**Format**

A data frame with 28 observations on the following variable.

C1 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.06)
str(xmp15.06)
```

---

xmp15.08

*R Data set: xmp15.08*

---

**Description**

The xmp15.08 data frame has 6 rows and 2 columns.

**Usage**

```
data(xmp15.08)
```

**Format**

A data frame with 6 observations on the following 2 variables.

Epoxy a numeric vector

Other a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.08)
str(xmp15.08)
```

---

xmp15.09

*R Data set: xmp15.09*

---

**Description**

The xmp15.09 data frame has 35 rows and 2 columns.

**Usage**

```
data(xmp15.09)
```

**Format**

A data frame with 35 observations on the following 2 variables.

C1 a numeric vector

C2 a factor with levels 10\ " 12\ " 4\ " 6\ " 8\ "

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp15.09)
str(xmp15.09)
```

---

xmp15.10

*R Data set: xmp15.10*

---

**Description**

The xmp15.10 data frame has 8 rows and 4 columns.

**Usage**

```
data(xmp15.10)
```

**Format**

A data frame with 8 observations on the following 4 variables.

Fear a numeric vector

Happiness a numeric vector

Depression a numeric vector

Calmness a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(xmp15.10)
str(xmp15.10)
```

---

xmp16.01

*R Data set: xmp16.01*

---

**Description**

The xmp16.01 data frame has 25 rows and 3 columns.

**Usage**

```
data(xmp16.01)
```

**Format**

A data frame with 25 observations on the following 3 variables.

Visc1 a numeric vector

Visc2 a numeric vector

Visc3 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp16.01)
str(xmp16.01)
```

---

xmp16.04

*R Data set: xmp16.04*

---

**Description**

The xmp16.04 data frame has 22 rows and 4 columns.

**Usage**

```
data(xmp16.04)
```

**Format**

A data frame with 22 observations on the following 4 variables.

Obs.1 a numeric vector

Obs.2 a numeric vector

Obs.3 a numeric vector

Obs.4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp16.04)
str(xmp16.04)
```

---

xmp16.06

*R Data set: xmp16.06*

---

**Description**

The xmp16.06 data frame has 27 rows and 26 columns.

**Usage**

```
data(xmp16.06)
```

**Format**

A data frame with 27 observations on the following 26 variables.

C1 a factor with levels 1 10 11 12 13 14 15 16 17 18 19 2 20 21 22 23 24 25 3 4 5 6 7 8 9 Day (i)  
C2 a numeric vector  
C3 a numeric vector  
C4 a numeric vector  
C5 a numeric vector  
C6 a numeric vector  
C7 a numeric vector  
C8 a numeric vector  
C9 a numeric vector  
C10 a numeric vector  
C11 a numeric vector  
C12 a numeric vector  
C13 a numeric vector  
C14 a numeric vector  
C15 a numeric vector  
C16 a numeric vector  
C17 a numeric vector  
C18 a numeric vector

C19 a numeric vector  
C20 a numeric vector  
C21 a numeric vector  
C22 a numeric vector  
C23 a numeric vector  
C24 a numeric vector  
C25 a numeric vector  
C26 a numeric vector

### Details

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

### Source

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### Examples

```
data(xmp16.06)  
str(xmp16.06)
```

---

xmp16.07

*R Data set: xmp16.07*

---

### Description

The xmp16.07 data frame has 24 rows and 1 column.

### Usage

```
data(xmp16.07)
```

### Format

A data frame with 24 observations on the following variable.

C1 a numeric vector

### Details

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(xmp16.07)
str(xmp16.07)
```

---

xmp16.08

*R Data set: xmp16.08*

---

**Description**

The xmp16.08 data frame has 16 rows and 4 columns.

**Usage**

```
data(xmp16.08)
```

**Format**

A data frame with 16 observations on the following 4 variables.

Obs. 1 a numeric vector

Obs. 2 a numeric vector

Obs. 3 a numeric vector

Obs. 4 a numeric vector

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

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**Examples**

```
data(xmp16.08)
str(xmp16.08)
```

---

`xmp16.09`*R Data set: xmp16.09*

---

**Description**

The xmp16.09 data frame has 18 rows and 6 columns.

**Usage**

```
data(xmp16.09)
```

**Format**

A data frame with 18 observations on the following 6 variables.

C1 a factor with levels 1 10 11 12 13 14 15 16 2 3 4 5 6 7 8 9 C1 Sample #

C2 a factor with levels 39.65 39.72 39.76 39.84 39.98 40.06 40.2 40.23 40.32 40.34 40.4  
40.41 40.42 40.49 40.61 C2 xw1

C3 a factor with levels 0.05 0.08 -0.09 -0.17 0.17 0.19 0.25 0.26 0.27 -0.31 0.34 -0.39  
-0.43 0.46 -0.5 C3 xw1 - 40.15

C4 a factor with levels 0 0.01 0.05 0.1 0.12 0.26 0.27 0.43 0.46 0.71 1 1.08 1.17 1.27 C4 d1

C5 a factor with levels -0.01 -0.09 -0.13 0.13 -0.2 0.21 0.35 0.38 0.47 0.49 0.55 0.56 0.57  
0.64 0.76 C5 xw1 - 39.85

C6 a factor with levels 0 0.01 0.09 0.13 0.29 C6 e1

**Details**

Consult the web site <http://www.thomsonedu.com/statistics/devore> for additional online resources that are available for this book.

**Source**

Devore, J. L. (2008) *Probability and Statistics for Engineering and the Sciences (7th Edition)*, ISBN-10: 0495382175 ISBN-13: 9780495382171

**Examples**

```
data(xmp16.09)  
str(xmp16.09)
```

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