

**Basic One-step Equations.**

Date:

Name:

Through your working, show how you are keeping the equation balanced as you solve for the variable.

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Round to 1 d.p. if necessary.

**[1]**

$$w - 48.6 = -41.6$$

**[2]**

$$55.4 - g = 46.4$$

**[3]**

$$5.8 = y - 31.4$$

**[4]**

$$p + 20.8 = 38.8$$

**[5]**

$$24.3 + g = 34.3$$

**[6]**

$$75.9 = y + 22.1$$

**[7]**

$$44 = 64.1 - h$$

**[8]**

$$30 + g = 39$$

**[9]**

$$38.9 = 31.7 + d$$

**[10]**

$$\frac{y}{3} = 7$$

**[11]**

$$\frac{k}{6} = 14$$

**[12]**

$$21 = \frac{k}{5}$$

**[13]**

$$86.1 = 12.3d$$

**[14]**

$$12y = 70.8$$

**[15]**

$$61.6 = 15.8c$$

## SOLUTIONS Basic One-step Equations.

Through your working, show how you are keeping the equation balanced as you solve for the variable.

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Round to 1 d.p. if necessary.

[1]

$$w - 48.6 = -41.6$$

+ 48.6      + 48.6

$$w = 7$$

[2]

$$55.4 - g = 46.4$$

- 55.4      - 55.4

$$-g = -9$$

× -1      × -1

$$g = 9$$

[3]

$$5.8 = y - 31.4$$

+ 31.4      + 31.4

$$37.2 = y$$

$$y = 37.2$$

[4]

$$p + 20.8 = 38.8$$

- 20.8      - 20.8

$$p = 18$$

[5]

$$24.3 + g = 34.3$$

- 24.3      - 24.3

$$g = 10$$

[6]

$$75.9 = y + 22.1$$

- 22.1      - 22.1

$$53.8 = y$$

$$y = 53.8$$

[7]

$$44 = 64.1 - h$$

- 64.1      - 64.1

$$-20.1 = -h$$

× -1      × -1

$$20.1 = h$$

$$h = 20.1$$

[8]

$$30 + g = 39$$

- 30      - 30

$$g = 9$$

[9]

$$38.9 = 31.7 + d$$

- 31.7      - 31.7

$$7.2 = d$$

$$d = 7.2$$

[10]

$$\frac{y}{3} = 6.8$$

× 3      × 3      × 3

$$y = 20.4$$

[11]

$$\frac{k}{6} = 13.5$$

× 6      × 6      × 6

$$k = 81$$

[12]

$$20.8 = \frac{k}{5}$$

× 5      × 5      × 5

$$104 = k$$

$$k = 104$$

[13]

$$86.1 = 12.3d$$

÷ 12.3      ÷ 12.3

$$7 = d$$

$$d = 7$$

[14]

$$12y = 70.8$$

÷ 12      ÷ 12

$$y = 5.9$$

[15]

$$61.6 = 15.8c$$

÷ 15.8      ÷ 15.8

$$3.9 = c$$

$$c = 3.9$$