

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]

$$c + 51 = 61.5$$

[2]

$$n + 32 = 72.1$$

[3]

$$82.5 = d + 15$$

[4]

$$c + 20 = 35.6$$

[5]

$$g + 42 = 106.6$$

[6]

$$180 = m + 35$$

[7]

$$41.3 + p = 32$$

[8]

$$63.4 + n = 47$$

[9]

$$36 = 54.9 + k$$

[10]

$$44.4 + c = 39$$

[11]

$$52.1 + h = 45$$

[12]

$$21 = 32.2 + w$$

ANSWERS 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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[1]

$$c + 51 = 61.5$$

$$\begin{array}{r} - 51 \quad - 51 \\ c + 51 = 61.5 \end{array}$$

$$c = 10.5$$

[2]

$$n + 32 = 72.1$$

$$\begin{array}{r} - 32 \quad - 32 \\ n + 32 = 72.1 \end{array}$$

$$n = 40.1$$

[3]

$$82.5 = d + 15$$

$$\begin{array}{r} - 15 \quad - 15 \\ 82.5 = d + 15 \end{array}$$

$$67.5 = d$$

$$d = 67.5$$

[4]

$$c + 20 = 35.6$$

$$\begin{array}{r} - 20 \quad - 20 \\ c + 20 = 35.6 \end{array}$$

$$c = 15.6$$

[5]

$$g + 42 = 106.6$$

$$\begin{array}{r} - 42 \quad - 42 \\ g + 42 = 106.6 \end{array}$$

$$g = 64.6$$

[6]

$$180 = m + 35$$

$$\begin{array}{r} - 35 \quad - 35 \\ 180 = m + 35 \end{array}$$

$$145 = m$$

$$m = 145.0$$

[7]

$$41.3 + p = 32$$

$$\begin{array}{r} - 41.3 \quad - 41.3 \\ 41.3 + p = 32 \end{array}$$

$$p = -9.3$$

[8]

$$63.4 + n = 47$$

$$\begin{array}{r} - 63.4 \quad - 63.4 \\ 63.4 + n = 47 \end{array}$$

$$n = -16.4$$

[9]

$$36 = 54.9 + k$$

$$\begin{array}{r} - 54.9 \quad - 54.9 \\ 36 = 54.9 + k \end{array}$$

$$-18.9 = k$$

$$k = -18.9$$

[10]

$$44.4 + c = 39$$

$$\begin{array}{r} - 44.4 \quad - 44.4 \\ 44.4 + c = 39 \end{array}$$

$$c = -5.4$$

[11]

$$52.1 + h = 45$$

$$\begin{array}{r} - 52.1 \quad - 52.1 \\ 52.1 + h = 45 \end{array}$$

$$h = -7.1$$

[12]

$$21 = 32.2 + w$$

$$\begin{array}{r} - 32.2 \quad - 32.2 \\ 21 = 32.2 + w \end{array}$$

$$-11.2 = w$$

$$w = -11.2$$