

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]

$$y + 36 = 40.8$$

[2]

$$y + 21 = 56.6$$

[3]

$$118.5 = c + 34$$

[4]

$$g + 51 = 66.2$$

[5]

$$h + 18 = 74.7$$

[6]

$$169.8 = k + 20$$

[7]

$$25.4 + g = 14$$

[8]

$$54.7 + n = 38$$

[9]

$$27 = 54.1 + f$$

[10]

$$19.7 + c = 13$$

[11]

$$20.8 + n = 12$$

[12]

$$30 = 41.3 + d$$

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]

$$y + 36 = 40.8$$

$$\begin{array}{r} -36 \quad -36 \\ y + 36 = 40.8 \end{array}$$

$$y = 4.8$$

[2]

$$y + 21 = 56.6$$

$$\begin{array}{r} -21 \quad -21 \\ y + 21 = 56.6 \end{array}$$

$$y = 35.6$$

[3]

$$118.5 = c + 34$$

$$\begin{array}{r} -34 \quad -34 \\ 118.5 = c + 34 \end{array}$$

$$84.5 = c$$

$$c = 84.5$$

[4]

$$g + 51 = 66.2$$

$$\begin{array}{r} -51 \quad -51 \\ g + 51 = 66.2 \end{array}$$

$$g = 15.2$$

[5]

$$h + 18 = 74.7$$

$$\begin{array}{r} -18 \quad -18 \\ h + 18 = 74.7 \end{array}$$

$$h = 56.7$$

[6]

$$169.8 = k + 20$$

$$\begin{array}{r} -20 \quad -20 \\ 169.8 = k + 20 \end{array}$$

$$149.8 = k$$

$$k = 149.8$$

[7]

$$25.4 + g = 14$$

$$\begin{array}{r} -25.4 \quad -25.4 \\ 25.4 + g = 14 \end{array}$$

$$g = -11.4$$

[8]

$$54.7 + n = 38$$

$$\begin{array}{r} -54.7 \quad -54.7 \\ 54.7 + n = 38 \end{array}$$

$$n = -16.7$$

[9]

$$27 = 54.1 + f$$

$$\begin{array}{r} -54.1 \quad -54.1 \\ 27 = 54.1 + f \end{array}$$

$$-27.1 = f$$

$$f = -27.1$$

[10]

$$19.7 + c = 13$$

$$\begin{array}{r} -19.7 \quad -19.7 \\ 19.7 + c = 13 \end{array}$$

$$c = -6.7$$

[11]

$$20.8 + n = 12$$

$$\begin{array}{r} -20.8 \quad -20.8 \\ 20.8 + n = 12 \end{array}$$

$$n = -8.8$$

[12]

$$30 = 41.3 + d$$

$$\begin{array}{r} -41.3 \quad -41.3 \\ 30 = 41.3 + d \end{array}$$

$$-11.3 = d$$

$$d = -11.3$$