

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]

$$f - 37 = -35$$

[2]

$$44 - g = 37$$

[3]

$$8 = w - 17$$

[4]

$$y + 52 = 51$$

[5]

$$43 + n = 31$$

[6]

$$42 = g + 22$$

[7]

$$47 = 50 - n$$

[8]

$$48 + p = 40$$

[9]

$$42 = 53 + k$$

[10]

$$\frac{k}{4} = 6$$

[11]

$$\frac{f}{9} = -17$$

[12]

$$-15 = \frac{y}{-4}$$

[13]

$$-55 = 11n$$

[14]

$$14w = 168$$

[15]

$$-136 = -17f$$

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]

$$f - 37 = -35$$

$$\begin{array}{r} +37 \quad +37 \\ f - 37 = -35 \end{array}$$

$$f = 2$$

[2]

$$44 - g = 37$$

$$\begin{array}{r} -44 \quad -44 \\ 44 - g = 37 \end{array}$$

$$-g = -7$$

$$\begin{array}{r} \times -1 \quad \times -1 \\ -g = -7 \end{array}$$

$$g = 7$$

[3]

$$8 = w - 17$$

$$\begin{array}{r} +17 \quad +17 \\ 8 = w - 17 \end{array}$$

$$25 = w$$

$$w = 25$$

[4]

$$y + 52 = 51$$

$$\begin{array}{r} -52 \quad -52 \\ y + 52 = 51 \end{array}$$

$$y = -1$$

[5]

$$43 + n = 31$$

$$\begin{array}{r} -43 \quad -43 \\ 43 + n = 31 \end{array}$$

$$n = -12$$

[6]

$$42 = g + 22$$

$$\begin{array}{r} -22 \quad -22 \\ 42 = g + 22 \end{array}$$

$$20 = g$$

$$g = 20$$

[7]

$$47 = 50 - n$$

$$\begin{array}{r} -50 \quad -50 \\ 47 = 50 - n \end{array}$$

$$-3 = -n$$

$$\begin{array}{r} \times -1 \quad \times -1 \\ -3 = -n \end{array}$$

$$3 = n$$

$$n = 3$$

[8]

$$48 + p = 40$$

$$\begin{array}{r} -48 \quad -48 \\ 48 + p = 40 \end{array}$$

$$p = -8$$

[9]

$$42 = 53 + k$$

$$\begin{array}{r} -53 \quad -53 \\ 42 = 53 + k \end{array}$$

$$-11 = k$$

$$k = -11$$

[10]

$$\frac{k}{4} = 6$$

$\times 4$

$$k = 24$$

[11]

$$\frac{f}{9} = -17$$

$\times 9$

$$f = -153$$

[12]

$$-15 = \frac{y}{-4}$$

$\times -4$

$$60 = y$$

$$y = 60$$

[13]

$$-55 = 11n$$

$$\begin{array}{r} \div 11 \quad \div 11 \\ -55 = 11n \end{array}$$

$$-5 = n$$

$$n = -5$$

[14]

$$14w = 168$$

$$\begin{array}{r} \div 14 \quad \div 14 \\ 14w = 168 \end{array}$$

$$w = 12$$

[15]

$$-136 = -17f$$

$$\begin{array}{r} \div -17 \quad \div -17 \\ -136 = -17f \end{array}$$

$$8 = f$$

$$f = 8$$