

Basic One-step Equations.

Date:

Name:

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

<http://www.learnersgrid.com>

Round to 1 d.p. if necessary.

[1]

$$d - 50 = -46$$

[2]

$$54 - h = 50$$

[3]

$$-2 = h - 36$$

[4]

$$f + 16 = 15$$

[5]

$$22 + k = 15$$

[6]

$$57 = m + 20$$

[7]

$$35 = 36 - n$$

[8]

$$42 + p = 39$$

[9]

$$52 = 59 + f$$

[10]

$$\frac{d}{5} = 15$$

[11]

$$\frac{p}{10} = -19$$

[12]

$$-22 = \frac{k}{-8}$$

[13]

$$-64 = 8m$$

[14]

$$10p = 110$$

[15]

$$-156 = -13d$$

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]

$$d - 50 = -46$$

$$\begin{array}{r} +50 \\ +50 \end{array}$$

$$d = 4$$

[2]

$$54 - h = 50$$

$$\begin{array}{r} -54 \\ -54 \end{array}$$

$$-h = -4$$

$$\begin{array}{r} \times -1 \\ \times -1 \end{array}$$

$$h = 4$$

[3]

$$-2 = h - 36$$

$$\begin{array}{r} +36 \\ +36 \end{array}$$

$$34 = h$$

$$h = 34$$

[4]

$$f + 16 = 15$$

$$\begin{array}{r} -16 \\ -16 \end{array}$$

$$f = -1$$

[5]

$$22 + k = 15$$

$$\begin{array}{r} -22 \\ -22 \end{array}$$

$$k = -7$$

[6]

$$57 = m + 20$$

$$\begin{array}{r} -20 \\ -20 \end{array}$$

$$37 = m$$

$$m = 37$$

[7]

$$35 = 36 - n$$

$$\begin{array}{r} -36 \\ -36 \end{array}$$

$$-1 = -n$$

$$\begin{array}{r} \times -1 \\ \times -1 \end{array}$$

$$1 = n$$

$$n = 1$$

[8]

$$42 + p = 39$$

$$\begin{array}{r} -42 \\ -42 \end{array}$$

$$p = -3$$

[9]

$$52 = 59 + f$$

$$\begin{array}{r} -59 \\ -59 \end{array}$$

$$-7 = f$$

$$f = -7$$

[10]

$$\frac{d}{5} = 15$$

$\times 5$

$$d = 75$$

[11]

$$\frac{p}{10} = -19$$

$\times 10$

$$p = -190$$

[12]

$$-22 = \frac{k}{-8}$$

$\times -8$

$$176 = k$$

$$k = 176$$

[13]

$$-64 = 8m$$

$$\begin{array}{r} \div 8 \\ \div 8 \end{array}$$

$$-8 = m$$

$$m = -8$$

[14]

$$10p = 110$$

$$\begin{array}{r} \div 10 \\ \div 10 \end{array}$$

$$p = 11$$

[15]

$$-156 = -13d$$

$$\begin{array}{r} \div -13 \\ \div -13 \end{array}$$

$$12 = d$$

$$d = 12$$