

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.

$$[1] \quad \frac{d}{3.6} = -3$$

$$[2] \quad \frac{p}{8.2} = 6$$

$$[3] \quad \frac{p}{14.5} = 9$$

$$[4] \quad \frac{p}{8.8} = 4$$

$$[5] \quad \frac{y}{-12.5} = 9$$

$$[6] \quad \frac{w}{-11.2} = 4$$

$$[7] \quad -5 = \frac{f}{5.3}$$

$$[8] \quad 8 = \frac{y}{6.7}$$

$$[9] \quad 12 = \frac{d}{3}$$

$$[10] \quad -3 = \frac{f}{11.3}$$

$$[11] \quad 0 = \frac{k}{10.7}$$

$$[12] \quad 5 = \frac{y}{-7}$$

$$[13] \quad \frac{y}{35.6} = 3$$

$$[14] \quad \frac{w}{37.8} = 5$$

$$[15] \quad 47 = \frac{p}{0.8}$$

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.

$$\text{[1]} \quad \frac{d}{3.6} = -3$$

$\times 3.6$ $\times 3.6$

$$d = -10.8$$

$$\text{[2]} \quad \frac{p}{8.2} = 6$$

$\times 8.2$ $\times 8.2$

$$p = 49.2$$

$$\text{[3]} \quad \frac{p}{14.5} = 9$$

$\times 14.5$ $\times 14.5$

$$p = 130.5$$

$$\text{[4]} \quad \frac{p}{8.8} = 4$$

$\times 8.8$ $\times 8.8$

$$p = 35.2$$

$$\text{[5]} \quad \frac{y}{-12.5} = 9$$

$\times -12.5$ $\times -12.5$

$$y = -112.5$$

$$\text{[6]} \quad \frac{w}{-11.2} = 4$$

$\times -11.2$ $\times -11.2$

$$w = -44.8$$

$$\text{[7]} \quad -5 = \frac{f}{5.3}$$

$\times 5.3$ $\times 5.3$

$$-26.5 = f$$

$$f = -26.5$$

$$\text{[8]} \quad 8 = \frac{y}{6.7}$$

$\times 6.7$ $\times 6.7$

$$53.6 = y$$

$$y = 53.6$$

$$\text{[9]} \quad 12 = \frac{d}{3}$$

$\times 3$ $\times 3$

$$36 = d$$

$$d = 36$$

[10]

$$-3 \times 11.3 = \frac{f}{11.3 \times 11.3}$$

$$-33.9 = f$$

$$f = -33.9$$

[11]

$$0 \times 10.7 = \frac{k}{10.7 \times 10.7}$$

$$0 = k$$

$$k = 0$$

[12]

$$5 \times -7 = \frac{y}{-7 \times -7}$$

$$-35 = y$$

$$y = -35$$

[13]

$$\frac{y}{35.6 \times 35.6} = 3 \times 35.6$$

$$y = 106.8$$

[14]

$$\frac{w}{37.8 \times 37.8} = 5 \times 37.8$$

$$w = 189$$

[15]

$$47 \times 0.8 = \frac{p}{0.8 \times 0.8}$$

$$37.44 = p$$

$$p = 37.44$$