

Name: _____

Date: _____

Learning Goal 6.1	I can solve equations.
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Example Solve the following equations.

$$21 = 7 - k$$

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

$$+21 + k = 7$$

$$\begin{array}{r} -21 \\ -21 \end{array}$$

$$k = -14$$

$$21 = 7 - k$$

$$\begin{array}{r} -7 \\ -7 \end{array}$$

$$(-1)(14) = (-k)(-1)$$

$$-14 = k$$

$$k = -14$$

$$+15 - n = 17$$

$$\begin{array}{r} -15 \\ -15 \end{array}$$

$$-n = 2$$

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

$$n = -2$$

$$\left(-\frac{2}{1}\right)\left(-\frac{1}{2}m\right) = (8)\left(-\frac{2}{1}\right)$$

$$m = -16$$

$$4 \times \frac{5}{4}p = -10 \times 4$$

$$\frac{5p}{5} = \frac{-40}{5}$$

$$p = -8$$

$$\left(\frac{4}{5}\right)\left(\frac{5}{4}p\right) = -10\left(\frac{4}{5}\right)$$

$$p = -8$$

Example Solve the following equations.

$$5q + 6 = -4$$

$$\begin{array}{r} -6 \\ -6 \end{array}$$

$$\frac{5q}{5} = \frac{-10}{5}$$

$$q = -2$$

$$-18 - 2r = 6$$

$$\begin{array}{r} +18 \\ +18 \end{array}$$

$$\frac{-2r}{-2} = \frac{24}{-2}$$

$$r = -12$$

$$6 \times \frac{(3-t)}{6} = -2 \times 6$$

$$\begin{array}{r} +3 - t \\ -3 \end{array} = \begin{array}{r} -12 \\ -3 \end{array}$$

$$(-1)(-t) = (-15)(-1)$$

$$t = 15$$

$$+3 - \frac{v}{6} = -2$$

$$\begin{array}{r} -3 \\ -3 \end{array}$$

$$6\left(-\frac{v}{6}\right) = (-5)6$$

$$\frac{-v}{-1} = \frac{-30}{-1}$$

$$v = 30$$

B
E
D
M
A
S

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