

Solving Two-Step Equations

$$-8 + 8 = 0 \quad 8 \div 8 = 1$$

$$\begin{array}{r} \cancel{-8} + 8g = 56 \\ \phantom{\cancel{-8}} + 8 \\ \hline 8g = 64 \\ \div 8 \\ \hline g = 8 \end{array}$$

$$\begin{array}{l} -8 + 8(8) \stackrel{?}{=} 56 \\ -8 + 64 = 56 \\ 56 = 56 \quad \checkmark \end{array}$$

$$\begin{array}{r} 5k \cancel{-7} = \cancel{-7} \\ + 7 \\ \hline 5k = 0 \\ \div 5 \\ \hline k = 0 \end{array}$$

$$\begin{array}{l} 5(0) - 7 \stackrel{?}{=} -7 \\ 0 - 7 = -7 \\ -7 = -7 \\ \checkmark \end{array}$$

$$\begin{array}{r} \cancel{19} + 13x = 32 \\ \phantom{\cancel{19}} - 19 \\ \hline 13x = 13 \\ \div 13 \\ \hline x = 1 \end{array}$$

$$\begin{array}{l} 19 + 13(1) \stackrel{?}{=} 32 \\ 19 + 13 = 32 \\ 32 = 32 \quad \checkmark \end{array}$$

Solving Two-Step Equations

$$-12(x + 6.2) = 60$$

$$7(x + 4.9) = 56$$

$$-9(x - 4) = 81$$

Solving Two-Step Equations

$$5d - 3.3 = 7.2$$

CONSTANT -3.3

$$\begin{array}{r} 5d - 3.3 = 7.2 \\ + 3.3 \quad + 3.3 \\ \hline 5d = 10.5 \\ \hline d = 2.1 \end{array}$$

$$3 = 0.2m - 7$$

CONSTANT -7

$$\begin{array}{r} 3 = 0.2m - 7 \\ + 7 \quad + 7 \\ \hline 10 = 0.2m \\ \hline \frac{10}{0.2} = \frac{0.2m}{0.2} \\ 50 = m \end{array}$$

$$1.3z + 1.5 = 5.4$$

CONSTANT

$$\begin{array}{r} 1.3z + 1.5 = 5.4 \\ - 1.5 \quad - 1.5 \\ \hline 1.3z = 3.9 \\ \hline \frac{1.3z}{1.3} = \frac{3.9}{1.3} \\ z = 3 \end{array}$$

$$-2 + 2 = 0$$

$$3x - 2 = 16$$

~~+2~~ +2

$$\frac{3x}{3} = \frac{18}{3}$$

$$x = 6$$

$$3(6) - 2 \stackrel{?}{=} 16$$

$$18 - 2 = 16$$

$$16 = 16$$

$$-9 + 9 = 0$$

$$\cancel{-9} + 2x = -23$$

~~+9~~ +9

$$\frac{2x}{2} = \frac{-14}{2}$$

$$x = -7$$

$$-9 + 2(-7) \stackrel{?}{=} -23$$

$$-9 + (-14) = -23$$

$$\checkmark \quad -23 = -23$$

$$\frac{100}{50} = 2$$

$$\frac{100}{5} = 20$$

$$\frac{10}{2} = 5$$

$$\frac{10}{0.2} = 50$$

Solving Two-Step Equations

$$\frac{5}{8}\left(x - \frac{1}{3}\right) = \frac{5}{12}$$

$$-7.2(x - 15.6) = -9$$

$$8.3(x + 3.1) = 83$$