



Solving One and Two Step Equations

Today's Target: To use inverse operations to isolate "x" (get x by itself)

Inverse Operations:

★ addition and subtraction

★ multiplication and division

Directions: Solve each of the following equations AND check your answers.

$$\begin{array}{r} 1) \quad y + 7 = 10 \\ \quad -7 \quad -7 \\ \hline \quad y = 3 \end{array}$$

$$\begin{array}{l} \checkmark \quad y + 7 = 10 \\ \quad 3 + 7 = 10 \\ \quad 10 = 10 \checkmark \end{array}$$

$$\begin{array}{r} 2) \quad y - 11 = -5 \\ \quad +11 \quad +11 \\ \hline \quad y = 6 \end{array}$$

$$\begin{array}{l} \checkmark \quad y - 11 = -5 \\ \quad 6 - 11 = -5 \\ \quad -5 = -5 \\ \quad \checkmark \end{array}$$

$$\begin{array}{r} 3) \quad x - 3 = 12 \\ \quad +3 \quad +3 \\ \hline \quad x = 15 \end{array}$$

$$\begin{array}{r} 4) \quad y + 12 = -21 \\ \quad -12 \quad -12 \\ \hline \quad y = -33 \end{array}$$

$$\begin{array}{r} 5) \quad 4x = 48 \\ \quad \frac{4x}{4} = \frac{48}{4} \\ \quad x = 12 \end{array}$$

$$\begin{array}{r} 6) \quad -3 \cdot \frac{y}{-3} = 9 \cdot -3 \\ \quad y = -27 \end{array}$$

$$\begin{array}{r} 7) \quad -65 = -5m \\ \quad \frac{-65}{-5} = \frac{-5m}{-5} \\ \quad m = 13 \end{array}$$

$$\begin{array}{r} 8) \quad 9 \cdot 7 = \frac{c}{9} \cdot 9 \\ \quad 63 = c \end{array}$$

$$\begin{array}{r} 9) \quad \frac{3}{2} \cdot \frac{2}{3} p = 14 \cdot \frac{3}{2} \\ \quad p = 21 \end{array}$$

$$\begin{array}{r} 10) \quad \frac{-4}{3} \cdot 9 = -\frac{3}{4} n \cdot \frac{-4}{3} \\ \quad -12 = n \end{array}$$

