

Solve for x AND check your answer:

1. $x - 4 = -10$

$$\begin{array}{r} +4 \quad +4 \\ \hline x = -6 \\ -6 - 4 = -10 \\ -10 = -10 \end{array}$$

2. $-4x = -40$

$$\begin{array}{r} \cancel{-4} \quad \cancel{-4} \\ \hline x = 10 \\ -4 \times 10 = -40 \\ -40 = -40 \end{array}$$

3. $\frac{x}{2} - 9 = -19$

$$\begin{array}{r} \cancel{+9} \quad \cancel{+9} \\ \hline \frac{x}{2} = -10 \\ \frac{1}{2} \times \frac{2}{2} = \frac{1}{1} \times \frac{2}{1} \\ 1x = -20 \\ x = -20 \end{array}$$

$$\frac{-20}{2} - 9 = -19$$

$$-10 - 9 = -19$$

$$-19 = -19$$

4. $\frac{3}{2}x - 6 = 2$

$$\begin{array}{r} \frac{3}{2}x + 0 = 8 \\ \frac{2}{2} \cdot \frac{3}{2}x = \frac{8}{1} \cdot \frac{2}{2} \\ 1x = \frac{16}{2} \\ x = \frac{16}{2} \end{array}$$

$$\frac{2}{2} \cdot \frac{3}{2}x - 6 = 2$$

$$\frac{1}{2} \cdot \frac{16}{2} - 6 = 2$$

$$8 - 6 = 2$$

$$2 = 2$$

Solving Fraction Equations

$$\frac{2}{3}x + 5 = 15$$

$$\begin{aligned} & \cdot 5 \cdot 5 \\ \text{ex. } & \frac{2}{3}x = \frac{10}{3} \\ & |x = 15 \\ & x = 15 \end{aligned}$$

$$\frac{2}{3}x + 5 = 15$$

$$\begin{aligned} & \cdot 5 \\ \text{ex. } & \frac{2}{3} \cdot \frac{15}{1} + 5 = 15 \\ & 10 + 5 = 15 \\ & 15 = 15 \end{aligned}$$

$$\frac{3}{5}x - 9 = 18$$

$$\begin{aligned} & +9 \quad +9 \\ \text{ex. } & \frac{3}{5}x = \frac{27}{5} \\ & |x = 45 \end{aligned}$$

$$\begin{aligned} \text{ck: } & \frac{3}{5}x - 9 = 18 \\ & \frac{3}{5} \left(\frac{45}{1} \right) - 9 = 18 \\ & 27 - 9 = 18 \\ & 18 = 18 \end{aligned}$$

Puzzle

