

2 STEP EQUATIONS

- ① ISOLATE THE VARIABLE BY ADDING THE OPPOSITE TO THE CONSTANT
- ② GET A 1 FOR YOUR COEFFICIENT BY DIVIDING OR MULTIPLYING BY THE RECIPROCAL OF THE COEFFICIENT

$$\begin{array}{r} -4x - 6 = 10 \\ +6 \quad +6 \\ \hline -4x = 16 \\ \cdot \frac{-1}{4} \cdot \frac{-1}{4} \\ \frac{-4}{-4} x = \frac{16}{-4} \\ x = -4 \end{array}$$

CHECK

$$\begin{aligned} -4(-4) - 6 &= 10 \\ 16 - 6 &= 10 \\ 10 &\neq 10 \end{aligned}$$

$$\begin{array}{r} -\frac{1}{3}x + 7 = 11 \\ + -7 \quad + -7 \\ \hline -\frac{1}{3}x = 4 \\ \cdot \frac{-3}{1} \cdot \frac{-3}{1} \\ \frac{-3}{1} \cdot \frac{-1}{3} x = 4 \cdot -3 \\ x = -12 \end{array}$$

CHECK

$$\begin{aligned} \frac{1}{3}(-12) + 7 &= 11 \\ 4 + 7 &= 11 \\ 11 &= 11 \end{aligned}$$

$$\frac{2}{5}x + 4 = 12$$

$$+ -4 \quad + -4$$

$$\frac{5}{2} \cdot \frac{2}{5}x = \frac{8}{1} \cdot \frac{5}{5}$$

$$x = \frac{40}{2}$$

$$x = 20$$

CHECK

$$\frac{2}{5}(20) + 4 = 12$$

$$8 + 4 = 12$$

$$12 = 12$$

2-STEP EQUATIONS

NAME _____

SOLVE FOR X. SHOW STEPS & CHECK.

$$\textcircled{1} \quad 3x - 6 = 12$$

$$\textcircled{2} \quad -5x - 8 = 32$$

$$\textcircled{3} \quad \frac{1}{3}x + 6 = 16$$

$$\textcircled{4} \quad -9x + 8 = 89$$

$$\textcircled{5} \quad \frac{2}{5}x - 6 = 14$$

$$\textcircled{6} \quad 12x - 8 = -104$$

$$\textcircled{7} \quad \frac{x}{-3} - 4 = 6$$

$$\textcircled{8} \quad 18 - 3x = -12$$

$$\textcircled{9} \quad 5(x-2) = 30$$

$$\textcircled{10} \quad -3(x-3) = 18$$

$$\textcircled{11} \quad \frac{1}{2}(4x+8) = 12$$

$$\textcircled{12} \quad 6(x-4) = 0$$