

Two-Step Equations

1 Directions: Fill in the blanks to solve each equation.

1. $6x - 18 = 33$

$$6x - 18 \pm 18 = 33 \pm 18 \quad \text{Add } 18$$

$$\frac{6x}{6} = \frac{51}{6}$$

Simplify

Divide

$$x = \frac{17}{2} \text{ or } 8\frac{1}{2}$$

2. $\frac{1}{2}x + 4 = -3$

$$\frac{1}{2}x + 4 \pm (-4) = -3 \pm (-4) \quad \text{Add } -4$$

$$\frac{1}{2}x = \frac{-7}{2}$$

Simplify

Multiply

$$x = -9$$

2 Directions: Solve each equation.

1. $-3x + 15 = 24$

$$-3x + 15 \pm (-15) = 24 \pm (-15)$$

$$\frac{-3x + 15}{-3} = \frac{9}{-3}$$

$$x = \frac{4}{3} \text{ or } 1\frac{1}{3}$$

Solution:

2. $\frac{2}{3}x + 15 = 35$

$$\frac{2}{3}x + 15 \pm (-15) = 35 \pm (-15)$$

$$\frac{2}{3}x = 20$$

$$\frac{3}{2} \cdot \frac{2}{3}x = \frac{3}{2} \cdot 20 = 30$$

$$x = 30$$

Solution: $x = 30$

2. $\frac{1}{3}x - 12 = 40$

$$\frac{1}{3}x - 12 \pm 12 = 40 \pm 12$$

$$\frac{1}{3}x = 52$$

$$\frac{3}{1} \cdot \frac{1}{3}x = 52 \cdot 3$$

$$x = 156$$

Solution: $x = 156$

4. $\frac{1}{4}y + 2 = -23$

$$\frac{1}{4}y + 2 \pm (-2) = -23 \pm (-2)$$

$$\frac{1}{4}y = -25$$

$$\frac{4}{1} \cdot \frac{1}{4}y = -25 \cdot 4$$

$$y = -100$$

Solution: $y = -100$

3 Directions: Solve each equation. Round all decimal answers to the hundredths place.

1. $-2.1x + 8.2 = 20$

$$-2.1x + 8.2 \pm (-8.2) = 20 \pm (-8.2)$$

$$\frac{-2.1x + 8.2}{-2.1} = \frac{11.8}{-2.1}$$

$$x = \frac{-11.8}{2.1} \approx -5.62$$

Solution: $x = -5.62$

2. $\frac{1}{2}x - \frac{1}{3} = -4$

$$\frac{1}{2}x - \frac{1}{3} = -4 + \frac{1}{3}$$

$$\frac{1}{2}x = -3\frac{2}{3}$$

$$\frac{2}{1} \cdot \frac{1}{2}x = -\frac{10}{3} \cdot 2$$

$$x = -\frac{20}{3} \approx -6.67$$

Solution: $x = -\frac{20}{3} \text{ or } -6.67$

3. $\frac{2}{3}x + 15 = -65$

$$\frac{2}{3}x + 15 \pm (-15) = -65 \pm (-15)$$

$$\frac{2}{3}x = -80$$

$$\frac{3}{2} \cdot \frac{2}{3}x = -80 \cdot \frac{3}{2}$$

Solution: $x = -440$

4. $-4.15x + 9 = -21.8$

$$-4.15x + 9 \pm (-9) = -21.8 \pm (-9)$$

$$\frac{-4.15x + 9}{-4.15} = \frac{-30.8}{-4.15}$$

$$x = \frac{30.8}{4.15} \approx 7.42$$

Solution: $x = 7.42$

5. $\frac{1}{2}x - 5 = \frac{1}{3}$

$$\frac{1}{2}x - 5 + 5 = \frac{1}{3} + 5$$

$$\frac{1}{2}x = \frac{16}{3}$$

$$\frac{2}{1} \cdot \frac{1}{2}x = \frac{16}{3} \cdot 2$$

$$x = \frac{32}{3}$$

Solution: $x = \frac{32}{3} \text{ or } 10\frac{2}{3}$

6. $\frac{1}{10}x - 22.8 = -14.25$

$$\frac{1}{10}x - 22.8 + 22.8 = -14.25 + 22.8$$

$$\frac{1}{10}x = 8.55$$

$$\frac{10}{1} \cdot \frac{1}{10}x = 8.55 \cdot 10$$

Solution: $x = 85.5$

Connections Academy Algebra 1 Answers

L Cohen



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