Name: _____ Period: _____ Date: _____

Solving Two-Step Equations Assignment

Solve each equation for the variable given.

1. $8x - 4 = 12$

2. $11z + 100 = 23$

3. $\frac{d}{18} + 6 = 16$

4. $\frac{b}{4} - 1 = 15$

5. $-18 - 11y = 26$

6. $-9 = \frac{p}{4} - 6$

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Solving Two-Step Equations Assignment

Solve each equation for the variable given.

1. $18(x+1) = -54$

2. $7(y-8) = 70$

3. $\frac{h-11}{11} = -7$

4. $\frac{q+100}{4} = 100$

5. $\frac{t+4}{-9} = -7$

6. $100(y-30) = -1000$

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Solving Two-Step Equations Assignment

Answers

Solve each equation for the variable given.

1. $8x - 4 = 12$

$$8x - 4 + 4 = 12 + 4$$

$$8x = 16$$

$$\frac{8x}{8} = \frac{16}{8}$$

$$x = 2$$

2. $11z + 100 = 23$

$$11z + 100 - 100 = 23 - 100$$

$$11z = -77$$

$$\frac{11z}{11} = \frac{-77}{11}$$

$$z = -7$$

3. $\frac{d}{18} + 6 = 16$

$$\frac{d}{18} + 6 - 6 = 16 - 6$$

$$\frac{d}{18} = 10$$

$$18 \times \frac{d}{18} = 18 \times 10$$

$$d = 180$$

4. $\frac{b}{4} - 1 = 15$

$$\frac{b}{4} - 1 + 1 = 15 + 1$$

$$\frac{b}{4} = 16$$

$$4 \times \frac{b}{4} = 4 \times 16$$

$$b = 64$$

5. $-18 - 11y = 26$

$$18 - 18 - 11y = 18 + 26$$

$$-11y = 44$$

$$\frac{-11y}{-11} = \frac{44}{-11}$$

$$y = -4$$

6. $-9 = \frac{p}{4} - 6$

$$-9 + 6 = \frac{p}{4} - 6 + 6$$

$$-3 = \frac{p}{4}$$

$$4 \times -3 = \frac{p}{4} \times 4$$

$$p = -12$$

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Solving Two-Step Equations Assignment

Solve each equation for the variable given.

1. $18(x+1) = -54$

$$\frac{18(x+1)}{18} = \frac{-54}{18}$$

$$x + 1 = -3$$

$$x + 1 - 1 = -3 - 1$$

$$x = -4$$

2. $7(y-8) = 70$

$$\frac{7(y-8)}{7} = \frac{70}{7}$$

$$y - 8 = 10$$

$$y - 8 + 8 = 10 + 8$$

$$y = 18$$

3. $\frac{h-11}{11} = -7$

$$\frac{h-11}{11} \times 11 = -7 \times 11$$

$$h - 11 = -77$$

$$h - 11 + 11 = -77 + 11$$

$$h = -66$$

4. $\frac{q+100}{4} = 100$

$$\frac{q+100}{4} \times 4 = 100 \times 4$$

$$q + 100 = 400$$

$$q + 100 - 100 = 400 - 100$$

$$q = 300$$

5. $\frac{t+4}{-9} = -7$

$$\frac{t+4}{-9} \times -9 = -7 \times -9$$

$$t + 4 = 63$$

$$t + 4 - 4 = 63 - 4$$

$$t = 59$$

6. $100(y-30) = -1000$

$$\frac{100(y-30)}{100} = \frac{-1000}{100}$$

$$y - 30 = -10$$

$$y - 30 + 30 = -10 + 30$$

$$y = 20$$