

NAME \_\_\_\_\_

DATE \_\_\_\_\_

ONE & TWO STEP EQUATIONS: Worksheet 4

Solve each equation for the given variable.

1)  $x + 3 = 15$

2)  $n - 6 = 21$

3)  $9y = 72$

4)  $t - 7 = -1$

5)  $-10x = 50$

6)  $\frac{p}{3} = 15$

7)  $8x - 7 = 33$

8)  $\frac{y}{4} + 2 = 11$

9)  $-8w - 1 = 23$

10)  $\frac{x}{-4} + 7 = 11$

KEY

ONE & TWO STEP EQUATIONS: Worksheet 4

Solve each equation for the given variable.

$$1) \quad x + 3 = 15 \qquad \begin{array}{l} x + 3 = 15 \\ x + 3 - 3 = 15 - 3 \\ x = 12 \end{array}$$

$$2) \quad n - 6 = 21 \qquad \begin{array}{l} n - 6 = 21 \\ n - 6 + 6 = 21 + 6 \\ n = 27 \end{array}$$

$$3) \quad 9y = 72 \qquad \begin{array}{l} 9y = 72 \\ 9y \div 9 = 72 \div 9 \\ y = 8 \end{array}$$

$$4) \quad t - 7 = -1 \qquad \begin{array}{l} t - 7 = -1 \\ t - 7 + 7 = -1 + 7 \\ t = 6 \end{array}$$

$$5) \quad -10x = 50 \qquad \begin{array}{l} -10x = 50 \\ -10x \div -10 = 50 \div -10 \\ x = -5 \end{array}$$

$$6) \quad \frac{p}{3} = 15 \qquad \begin{array}{l} \frac{p}{3} = 15 \\ \frac{p}{3} \cdot 3 = 15 \cdot 3 \\ p = 45 \end{array}$$

$$7) \quad 8x - 7 = 33 \qquad \begin{array}{l} 8x - 7 = 33 \\ 8x - 7 + 7 = 33 + 7 \\ 8x = 40 \\ 8x \div 8 = 40 \div 8 \\ x = 5 \end{array}$$

$$8) \quad \frac{y}{4} + 2 = 11 \qquad \begin{array}{l} \frac{y}{4} + 2 = 11 \\ \frac{y}{4} + 2 - 2 = 11 - 2 \end{array} \quad \begin{array}{l} \frac{y}{4} = 9 \\ \frac{y}{4} \cdot 4 = 9 \cdot 4 \\ y = 36 \end{array}$$

$$9) \quad -8w - 1 = 23 \qquad \begin{array}{l} -8w - 1 = 23 \\ -8w - 1 + 1 = 23 + 1 \\ -8w = 24 \end{array} \quad \begin{array}{l} -8w \div -8 = 24 \div -8 \\ w = -3 \end{array}$$

$$10) \quad \frac{x}{-4} + 7 = 11 \qquad \begin{array}{l} \frac{x}{-4} + 7 = 11 \\ \frac{x}{-4} + 7 - 7 = 11 - 7 \\ \frac{x}{-4} = 4 \end{array} \quad \begin{array}{l} \frac{x}{-4} \cdot -4 = 4 \cdot -4 \\ x = -16 \end{array}$$