

NAME \_\_\_\_\_

DATE \_\_\_\_\_

ONE & TWO STEP EQUATIONS: Worksheet 1

Solve each equation for the given variable.

1)  $x + 6 = 13$

2)  $n - 2 = 15$

3)  $4y = 36$

4)  $t - 3 = -7$

5)  $-8x = 24$

6)  $\frac{p}{5} = 12$

7)  $2x - 5 = 13$

8)  $\frac{y}{7} + 4 = 6$

9)  $-5w - 3 = 2$

10)  $\frac{x}{-3} + 9 = 11$

KEY

ONE & TWO STEP EQUATIONS: Worksheet 1

Solve each equation for the given variable.

$$1) \quad x + 6 = 13 \qquad \begin{aligned} x + 6 &= 13 \\ x + 6 - 6 &= 13 - 6 \\ x &= 7 \end{aligned}$$

$$2) \quad n - 2 = 15 \qquad \begin{aligned} n - 2 &= 15 \\ n - 2 + 2 &= 15 + 2 \\ n &= 17 \end{aligned}$$

$$3) \quad 4y = 36 \qquad \begin{aligned} 4y &= 36 \\ 4y \div 4 &= 36 \div 4 \\ y &= 9 \end{aligned}$$

$$4) \quad t - 3 = -7 \qquad \begin{aligned} t - 3 &= -7 \\ t - 3 + 3 &= -7 + 3 \\ t &= -4 \end{aligned}$$

$$5) \quad -8x = 24 \qquad \begin{aligned} -8x &= 24 \\ -8x \div -8 &= 24 \div -8 \\ x &= -3 \end{aligned}$$

$$6) \quad \frac{p}{5} = 12 \qquad \begin{aligned} \frac{p}{5} &= 12 \\ \frac{p}{5} \cdot 5 &= 12 \cdot 5 \\ p &= 60 \end{aligned}$$

$$7) \quad 2x - 5 = 13 \qquad \begin{aligned} 2x - 5 &= 13 \\ 2x - 5 + 5 &= 13 + 5 \\ 2x &= 18 \\ 2x \div 2 &= 18 \div 2 \\ x &= 9 \end{aligned}$$

$$8) \quad \frac{y}{7} + 4 = 6 \qquad \begin{aligned} \frac{y}{7} + 4 &= 6 \\ \frac{y}{7} + 4 - 4 &= 6 - 4 \end{aligned} \quad \begin{aligned} \frac{y}{7} &= 2 \\ \frac{y}{7} \cdot 7 &= 2 \cdot 7 \\ y &= 14 \end{aligned}$$

$$9) \quad -5w - 3 = 2 \qquad \begin{aligned} -5w - 3 &= 2 \\ -5w - 3 + 3 &= 2 + 3 \\ -5w &= 5 \end{aligned} \quad \begin{aligned} -5w \div -5 &= 5 \div -5 \\ w &= -1 \end{aligned}$$

$$10) \quad \frac{x}{-3} + 9 = 11 \qquad \begin{aligned} \frac{x}{-3} + 9 &= 11 \\ \frac{x}{-3} + 9 - 9 &= 11 - 9 \\ \frac{x}{-3} &= 2 \end{aligned} \quad \begin{aligned} \frac{x}{-3} \cdot -3 &= 2 \cdot -3 \\ x &= -6 \end{aligned}$$