

NAME \_\_\_\_\_

DATE \_\_\_\_\_

ONE & TWO STEP EQUATIONS: Worksheet 3

Solve each equation for the given variable.

1)  $x + 7 = 42$

2)  $n - 11 = 3$

3)  $6y = 54$

4)  $t - 6 = -3$

5)  $-2x = 44$

6)  $\frac{p}{8} = 4$

7)  $3x - 8 = 19$

8)  $\frac{y}{3} + 5 = 9$

9)  $-2w - 6 = 6$

10)  $\frac{x}{-2} + 4 = 10$

KEY

ONE & TWO STEP EQUATIONS: Worksheet 3

Solve each equation for the given variable.

1)  $x + 7 = 42$

$$\begin{aligned} x + 7 &= 42 \\ x + 7 - 7 &= 42 - 7 \\ x &= 35 \end{aligned}$$

2)  $n - 11 = 3$

$$\begin{aligned} n - 11 &= 3 \\ n - 11 + 11 &= 3 + 11 \\ n &= 14 \end{aligned}$$

3)  $6y = 54$

$$\begin{aligned} 6y &= 54 \\ 6y \div 6 &= 54 \div 6 \\ y &= 9 \end{aligned}$$

4)  $t - 6 = -3$

$$\begin{aligned} t - 6 &= -3 \\ t - 6 + 6 &= -3 + 6 \\ t &= 3 \end{aligned}$$

5)  $-2x = 44$

$$\begin{aligned} -2x &= 44 \\ -2x \div -2 &= 44 \div -2 \\ x &= -22 \end{aligned}$$

6)  $\frac{p}{8} = 4$

$$\begin{aligned} \frac{p}{8} &= 4 \\ \frac{p}{8} \cdot 8 &= 4 \cdot 8 \\ p &= 32 \end{aligned}$$

7)  $3x - 8 = 19$

$$\begin{aligned} 3x - 8 &= 19 \\ 3x - 8 + 8 &= 19 + 8 \\ 3x &= 27 \\ 3x \div 3 &= 27 \div 3 \\ x &= 9 \end{aligned}$$

8)  $\frac{y}{3} + 5 = 9$

$$\begin{aligned} \frac{y}{3} + 5 &= 9 \\ \frac{y}{3} + 5 - 5 &= 9 - 5 \end{aligned} \quad \begin{aligned} \frac{y}{3} &= 4 \\ \frac{y}{3} \cdot 3 &= 4 \cdot 3 \\ y &= 12 \end{aligned}$$

9)  $-2w - 6 = 6$

$$\begin{aligned} -2w - 6 &= 6 \\ -2w - 6 + 6 &= 6 + 6 \\ -2w &= 12 \end{aligned} \quad \begin{aligned} -2w \div -2 &= 12 \div -2 \\ w &= -6 \end{aligned}$$

10)  $\frac{x}{-2} + 4 = 10$

$$\begin{aligned} \frac{x}{-2} + 4 &= 10 \\ \frac{x}{-2} + 4 - 4 &= 10 - 4 \\ \frac{x}{-2} &= 6 \\ \frac{x}{-2} \cdot -2 &= 6 \cdot -2 \\ x &= -12 \end{aligned}$$