

NAME _____

Module 3 Solving Linear Equations
of One Variable

Lesson 3 Solving One-Step Linear Equations



guided
practice

Set 1

1. Solve: $3x = 9$

$$\begin{aligned} 3x &= 9 \\ \frac{3x}{3} &= \frac{9}{3} \\ x &= 3 \end{aligned}$$

$$\begin{aligned} \text{Check: } 3x &= 9 \\ 3 \cdot 3 &\stackrel{?}{=} 9 \\ 9 &= 9 \end{aligned}$$

2. Solve: $\frac{r}{7} = 6$

$$\begin{aligned} \frac{r}{7} &= 6 \\ 7 \cdot \frac{r}{7} &= 7 \cdot 6 \\ r &= 42 \end{aligned}$$

$$\begin{aligned} \text{Check: } \frac{r}{7} &= 6 \\ \frac{42}{7} &\stackrel{?}{=} 6 \\ 6 &= 6 \end{aligned}$$

3. Solve: $5x = 20$

$$\begin{aligned} 5x &= 20 \\ \frac{5x}{5} &= \frac{20}{5} \\ x &= 4 \end{aligned}$$

$$\begin{aligned} \text{Check: } 5x &= 20 \\ 5 \cdot 4 &\stackrel{?}{=} 20 \\ 20 &= 20 \end{aligned}$$

4. Solve: $\frac{n}{3} = 9$

$$\begin{aligned} \frac{n}{3} &= 9 \\ 3 \cdot \frac{n}{3} &= 3 \cdot 9 \\ n &= 27 \end{aligned}$$

$$\begin{aligned} \text{Check: } \frac{n}{3} &= 9 \\ \frac{27}{3} &\stackrel{?}{=} 9 \\ 9 &= 9 \end{aligned}$$

Set 2

1. Solve: $p + 3 = 4$

$$\begin{aligned} p + 3 &= 4 \\ p + 3 - 3 &= 4 - 3 \\ p &= 1 \end{aligned}$$

$$\begin{aligned} \text{Check: } p + 3 &= 4 \\ 1 + 3 &\stackrel{?}{=} 4 \\ 4 &= 4 \end{aligned}$$

2. Solve: $y - 8 = 10$

$$\begin{aligned} y - 8 &= 10 \\ y - 8 + 8 &= 10 + 8 \\ y &= 18 \end{aligned}$$

$$\begin{aligned} \text{Check: } y - 8 &= 10 \\ 18 - 8 &\stackrel{?}{=} 10 \\ 10 &= 10 \end{aligned}$$

3. Solve: $A - 2 = 5$

$$\begin{aligned} A - 2 &= 5 \\ A - 2 + 2 &= 5 + 2 \\ A &= 7 \end{aligned}$$

$$\begin{aligned} \text{Check: } A - 2 &= 5 \\ 7 - 2 &\stackrel{?}{=} 5 \\ 5 &= 5 \end{aligned}$$

4. Solve: $t + 7 = 13$

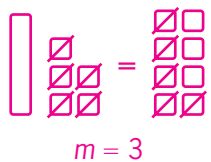
$$\begin{aligned} t + 7 &= 13 \\ t + 7 - 7 &= 13 - 7 \\ t &= 6 \end{aligned}$$

$$\begin{aligned} \text{Check: } t + 7 &= 13 \\ 6 + 7 &\stackrel{?}{=} 13 \\ 13 &= 13 \end{aligned}$$

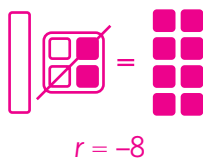
Manipulative Set

Solve each equation using manipulatives.

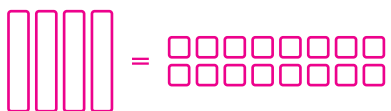
1. $m + 5 = 8$



2. $r + 2 = -6$



3. $4s = 16$



$s = 4$