NAME

Module 3 **Solving Linear Equations**

of One Variable

Lesson 4 Solving Two-Step Linear Equations



Set 1

1. Is
$$k = 0$$
 a solution to the equation: $\frac{k}{12} - 3 = -3$?

$$\frac{k}{12}-3=-3$$

$$\frac{0}{12} - 3 = -3$$

$$\begin{array}{c} \frac{0}{12} - 3 = -3 \\ 0 - 3 = -3 \end{array}$$

Yes, 0 is a solution.

3. Solve: 4d - 10 = 70

equation 5p - 9 = 13.

$$\frac{y}{15} + 4 = 1$$

2. Explain the steps you would use to solve the

Add nine to both sides of the equation. Then

divide both sides of the equation by five.

4. Solve:
$$\frac{y}{15} + 4 = 5$$
 $\frac{y}{15} + 4 = 5$ $\frac{y}{15} + 4 - 4 = 5 - 4$ $\frac{y}{15} = 1$ $(15)(\frac{y}{15}) = (15)(1)$ $y = 15$

$$\frac{1}{15} = 1$$

$$(15)\left|\frac{y}{15}\right| = (15)(15)$$

$$4d - 10 = 70$$
$$4d - 10 + 10 = 70 + 10$$

$$\frac{4d}{4} = \frac{80}{4}$$
 $d = 20$

5. Solve:
$$3x + 2 = 17$$

$$3x + 2 - 2 = 17 - 2$$

$$3x = 5$$

$$\frac{3x}{3} = \frac{5}{3}$$

6. Solve:
$$\frac{r}{7} - 2 = 12$$

$$\frac{r}{7} - 2 = 12$$

$$\frac{r}{7} - 2 = 12$$
 $\frac{r}{7} - 2 + 2 = 12 + 2$
 $\frac{r}{7} = 14$
 $(7) \left| \frac{r}{7} \right| = (7)(14)$
 $r = 98$

$$\frac{1}{7} = 14$$

$$\frac{1}{2} = (7)(1)$$

$$r = 98$$

Manipulative Set

Use algebra tiles to model and solve each equation.

1.
$$2x + 4 = 8$$

$$x = 2$$

2.
$$2x + 3 = 5$$

$$x = 1$$

3.
$$3x - 4 = 8$$

4.
$$4x + 3 = 15$$

$$x = 3$$