Name ______ Date _____

Skills Maintenance

Solving Equations

Activity 1

Solve the equations using the properties and rules you know. Check the answer when you are done by substituting the value for the variable in the original equation.

$$x - 9 = 15$$

Solve:

$$x + -9 = 15$$

Model

$$x + -9 + 9 = 15 + 9$$

$$x + 0 = 24$$

x = 2424 - 9 = 15Check:

1.
$$x + 7 = 24$$

Solve:

2.
$$w-3=-2$$

Solve:

w = ____

Check:

Check:

3.
$$-3z = 24$$

Solve:

Solve:

y = _____

Check:

Check:

%÷ Apply Skills

Thinking About Algebraic Equations

Activity 1

Look at the pairs of equations. There is a slight difference in each of them. Circle the part that is different.

Model

$$3x + 2 - 3 + 5 = 10$$

$$3x + 2 - 3 - 5 = 10$$

1.
$$x+2+-3+5=20$$

$$x + 2 + 3 + 5 = 20$$

2.
$$24 = 3x + 5 - -3 - x$$

$$24 = 3x + 5 - -3 + x$$

3.
$$3x - 9 + 2 = 35$$

$$-3x - 9 + 2 = 35$$

4.
$$-17 = -x - 3 - 5 - -2$$

$$-17 = -x - 3 + 5 - -2$$

Activity 2

Each of the pairs of equations is slightly different. Solve each equation and be ready to compare and discuss the answers.

1.
$$3x-x+2x=8$$
 and $-3x-x+2x=8$

Show your work here:

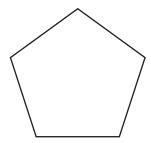
2.
$$-5 + x - 7 = 24$$
 and $5 + x - 7 = 24$

Show your work here:

3.
$$-17 + x + 17 + -1 = 2$$
 and $-17 + x + 17 + 1 = 2$

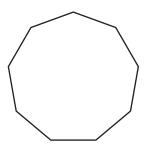
Show your work here:

Name	Date
Problem-Solving Activity Interior Angle Measurement of Regular Polygons	
Use the pattern in the <i>Table of Measures for Regular P. Student Text</i> to solve the problems. In some cases, you triangles in the shape in order to find out how many the three equations for each shape.	will have to draw
1. Hexagon	
Three algebraic equations for a hexagon	
-	
2. Octagon	
Three algebraic equations for an octagon	



Three algebraic equations for a pentagon

Nonagon



Three algebraic equations for a nonagon