

Name _____ Date _____

**Skills Maintenance****Multistep Equations****Activity 1**

Solve the multistep equations. Show your work. Use subtraction to check your answers.

1. $3x + 5 = 20$

Show your work here:

$x = \underline{\hspace{2cm}}$

Check your work here:

2. $45 - 5 = -8x$

Show your work here:

$x = \underline{\hspace{2cm}}$

Check your work here:

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Apply Skills

Translating Numbers into Equations

Activity 1

Write the number patterns using algebraic equations. You may need two variables.

Model

The numeric pattern is:

$$3 + -3 = 0 \quad 4 + -4 = 0 \quad 5 + -5 = 0$$

Write the equation. $x + -x = 0$

1. The numeric pattern is:

$$5 \cdot -1 = -5$$

$$6 \cdot -1 = -6$$

$$7 \cdot -1 = -7$$

Write the equation.

2. The numeric pattern is:

$$0 = -5 \cdot 0$$

$$0 = 27 \cdot 0$$

$$0 = 1,437.5 \cdot 0$$

Write the equation.

3. The numeric pattern is:

$$3 \cdot 4 = 4 \cdot 3$$

$$100 \cdot 10 = 10 \cdot 100$$

$$-5 \cdot -4 = -4 \cdot -5$$

Write the equation.

4. The numeric pattern is:

$$5(3 + 2) = 5 \cdot 3 + 5 \cdot 2$$

$$-2(7 + 1) = -2 \cdot 7 + -2 \cdot 1$$

$$18(1 + 2) = 18 \cdot 1 + 18 \cdot 2$$

Write the equation.

5. The numeric pattern is:

$$3 + 5 + -5 = 3 + 0$$

$$4 + 6 + -6 = 4 + 0$$

$$17 + 22 + -22 = 17 + 0$$

Write the equation.

6. The numeric pattern is:

$$-3 \cdot -1 = 3$$

$$-100 \cdot -1 = 100$$

$$-4.5 \cdot -1 = 4.5$$

Write the equation.

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Activity 2

Think about the relationship between numbers as you answer the problems. Make sure to check your answer by substituting the values into the original equation.

- Two numbers add up to 100. The larger number is three times greater than the smaller number. What are the two numbers? _____
- Two numbers add up to 56. The larger number is 10 greater than the smaller number. What are the two numbers? _____
- Two numbers add up to 30. One number is 4 less than the other number. What are the two numbers? _____
- Two numbers add up to 90. One number is 5 times greater than the other number. What are the two numbers? _____
- Three numbers add up to 70. The first number is 10 more than the second number. The second number is the same as the third number. What are the three numbers? _____

**Reinforce Understanding**Use the mBook *Study Guide* to review lesson concepts.