Name _____ Class _____ Date _____

Reteaching 1-6

Multiplying and Dividing Real Numbers

OBJECTIVE: Multiplying and dividing integers and decimals

MATERIALS: A number cube

Review the following multiplication and division rules.

- The product or quotient of two positive numbers is always positive.
- The product or quotient of two negative numbers is always positive.
- The product or quotient of a positive and a negative number is always negative.

Example

Roll the number cube to determine the signs of the numbers in the following example. If you roll an even number (2, 4, or 6), write + in the blank to make the number positive. If you roll an odd number (1, 3, or 5), write a − in the blank to make the number negative. Decide what sign the answer will have before you calculate the answer.

____ 56 ÷ ____ 7 ← **Roll the number cube to fill in the blanks.**

−56 ÷ (+7) ← **Suppose your first roll was a 3, so 56 is negative. Suppose your second roll was 6, so 7 is positive. Now that you have the signs of the numbers, decide what the sign of the answer will be. Dividing a negative number by a positive number results in a negative number.**

−8 ← **The answer is −8.**

Exercises

Roll the number cube to determine the signs of the numbers in the following exercises. Remember to decide what sign the answer will have before you calculate the answer.

1. ____ 20 · ____ 8

2. ____ 3.2 · ____ 10

3. ____ 27 ÷ ____ 3

4. ____ 14 · ____ 4

5. ____ 120 ÷ ____ 12

6. ____ 45 ÷ ____ 9

7. ____ 1.4 · ____ 3

8. ____ 96 ÷ ____ 8

Simplify each expression.

9. $4(-2)$

10. $-6(12)$

11. $-2(-5)$

12. $-8(11)$

13. $(-7)^2$

14. $-10(-5)$

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