Name: \_\_\_\_\_\_ Ms. Napolitano Date:\_\_\_\_\_ Activity #\_\_\_\_\_

Day 8: I can use integer operations to solve real world problems.

## Homework

1 A whale dives at a speed of 3 feet per second. What is the change in the position of the whale relative to where it started after 12 seconds?



C 4 feet

B −4 feet

D 36 feet

Will your answer be positive or negative?



2 Tell whether each equation is True or False.

**a.** 
$$-7 \cdot 8 = 7 \cdot (-8)$$

\_\_\_ True \_\_\_\_ False

**b.** 
$$-7 \cdot (-8) = 7 \cdot 8$$

False

**c.** 
$$7 \cdot (-8) = 7 \cdot 8$$

True False

True

How can the signs of the factors in each multiplication equation help you solve this problem?



Myra withdraws the same amount of money from her checking account each week. In 4 weeks, she withdraws a total of \$200. Which equation represents the amount of money her account changes by each week?

**A** 
$$-200 \div (-4) = 50$$

**B** 
$$-200 \div 4 = -50$$

**C** 
$$-200 \div 4 = 50$$

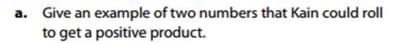
**D** 
$$-200 \div (-4) = -50$$

Sam chose **C** as the correct answer. How did he get that answer?

What can the signs of the numbers in a division problem tell you about the quotient?



4 Kain made two number cubes to use in a game. The faces on each cube contain the numbers 1, −2, 3, −4, 5, and −6. After Kain rolls the two cubes, he multiplies the two numbers.



What is true about the signs of two factors if their product is positive?



- **b.** Give an example of two numbers that Kain could roll to get a negative product.
- Savannah solves each of the following problems as shown below.

**a.** 
$$-6 \cdot 12 \div (-4) = 18$$

**b.** 
$$8 \cdot (-3) \div 6 = -4$$

**c.** 
$$-40 \cdot (-2) \div (-10) = 8$$

**d.** 
$$-7 \cdot 5 \cdot (-2) \div 5 = 14$$

Are the answers correct? Explain any incorrect answers.

Remember to pay careful attention to the signs of numbers as you find quotients and products.

