

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?

A -36 feet                      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.  $-7 \cdot (-8) = 7 \cdot 8$                        True                       False  
c.  $7 \cdot (-8) = 7 \cdot 8$                        True                       False

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



- 3 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  $-200 \div (-4) = -50$

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



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

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- 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.

- a. Give an example of two numbers that Kain could roll to get a positive product.

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- b. Give an example of two numbers that Kain could roll to get a negative product.

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



- 5 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.

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

