$\qquad$

## Multiply and Divide Positive and Negative Integers

## Solve the problems.

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. $\quad-7 \cdot 8=7 \cdot(-8)$
b. $-7 \cdot(-8)=7 \cdot 8$
c. $7 \cdot(-8)=7 \cdot 8$

| $\square$ True | $\square$ False |
| :--- | :--- |
| $\square$ True | $\square$ False |
| $\square$ True | $\square$ 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 $-200 \div(-4)=-50$
Sam chose Con as the correct answer. How did he get that answer?
$\qquad$
$\qquad$

## Solve.

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

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.

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

