

- 20 The table shows the low temperatures in Alto for 5 days. What is the average low temperature?

**Daily Low Temperature  
in Alto**

Day	Low Temperature
1	$-4^{\circ}\text{F}$
2	$-7^{\circ}\text{F}$
3	$-13^{\circ}\text{F}$
4	$-5^{\circ}\text{F}$
5	$-6^{\circ}\text{F}$

Show your work.

Solution: \_\_\_\_\_

- 21 Which equation has a negative solution?

A  $-6 \div (-2) = \square$

B  $-6 + (-2) = \square$

C  $-2 \cdot (-6) = \square$

D  $-2 - (-6) = \square$

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

To find the average of a set of numbers, do you multiply or divide?



### Pair/Share

How did you and your partner decide what step to do first?

How can you use the multiplication rules to help you solve this problem?



### Pair/Share

How did you and your partner choose your answer?

Solve the problems.

1 Which multiplication equation is *false*?

A  $(-a) \cdot (-1) = (-a)$

B  $(-a) \cdot 0 = 0$

C  $(-a) \cdot 1 = (-a)$

D  $(-a) \cdot b = b \cdot (-a)$

2 The lowest elevation in Long Beach, California, is 7 feet below sea level. The elevation of Death Valley is about 40 times lower than the elevation of Long Beach. What is the approximate elevation of Death Valley?

A -280 feet

B -47 feet

C -33 feet

D -6 feet

3 Draw a line from each expression to the word problem it could represent.

$-12 \times 4$	A football team loses a total of 12 yards in 4 plays. On average, how many yards did the team move per play?
$12 \times 4$	The temperature of the ocean water dropped 4 degrees every hour. After 12 hours, what was the change in the water temperature?
$12 \times -4$	A garden consists of 12 rose bushes in each of 4 rows. How many rose bushes does the garden have altogether?
$-3 \times -4$	Every second, a snail crawls 12 millimeters down a hole. How many millimeters will the snail have crawled after 4 seconds?
$-12 \div 4$	During a drought, a pond's fish population decreased by 3 for every meter drop in the pond's water level. At that rate, how many fish died once the water level dropped 4 meters?

- 4 Write each expression under the category that correctly describes the number to which the expression simplifies.

- |  |
|--|
| $- (8 \div 2)$<br>$-5 \times (-4)$<br>$6 \div (-3)$<br>$-10 \div (-10)$<br>$-25 \times (-4)$<br>$-21 \div 7$ |
|--|

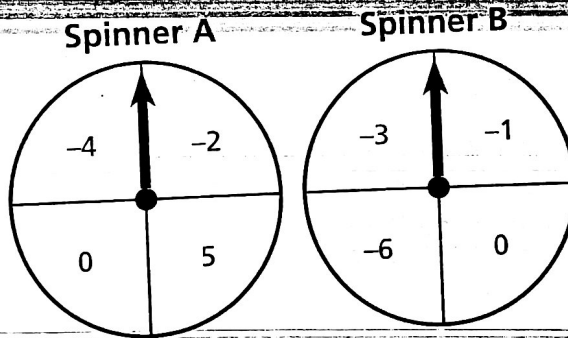
A negative number	A positive number

- 5 Marc rides his bike 350 meters down to the bottom of a hill. He did the ride in 5 equal stages. How much did Marc's elevation change during each stage?

**Show your work.**

**Answer** \_\_\_\_\_

- 6 Hugh is playing a game. He spins each spinner and then multiplies the numbers to find the product.



**Part A**

Give an example of two numbers Hugh could spin to get a positive product.

**Answer** \_\_\_\_\_

**Part B**

Give an example of two numbers Hugh could spin to get a negative product.

**Answer** \_\_\_\_\_

**Self Check** Go back and see what you can check off on the Self Check on page 1.

- Use division to find the decimal equivalent for  $\frac{1}{7}$ . Be sure to continue dividing until the decimal terminates or begins to repeat.

**Show your work.**

*Solution:* \_\_\_\_\_

- Audrey is practicing basketball. She makes a basket from the free-throw line 8 out of 25 shots. Which decimal shows how often Audrey makes a basket? Circle the letter of the correct answer.

- A 3.2  
 B 3.125  
 C 0.32  
 D 0.3125

Jorge chose **B** as the correct answer. How did he get that answer?

I know  $\frac{1}{7}$  is more than  $\frac{1}{8}$  and less than  $\frac{1}{6}$ , so my answer will be between 0.125 and  $0.1\bar{6}$ .



### Pair/Share

How far do you need to continue the division of 1 by 7 to know the answer?

Will your answer be greater than 1 or less than 1?



### Pair/Share

When you write a repeating decimal, how do you decide where to draw the bar?

Solve the problems.

1 Joe's apple weighs  $\frac{4}{5}$  lb. Marta's apple weighs 0.5 lb. How much *more* does Joe's apple weigh than Marta's?

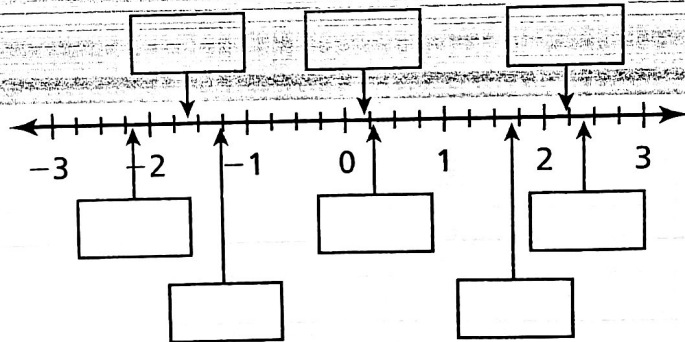
- A 0.3 lb                      C 0.8 lb  
 B 0.75 lb                     D 1.25 lb

2 At 2:30 AM the temperature in Joelle is  $-3^{\circ}\text{F}$ . The temperature drops  $\frac{3}{4}$  of a degree in 30 minutes. What is the temperature in Joelle at 3:00 AM?

- A  $-4.\bar{3}^{\circ}\text{F}$                     C  $-2.25^{\circ}\text{F}$   
 B  $-3.75^{\circ}\text{F}$                 D  $-1.\bar{6}^{\circ}\text{F}$

3 Write each number in the appropriate box to show its placement along the number line.

0.21	$\frac{3}{11}$
$-\frac{13}{6}$	2.375
-1.62	$2\frac{2}{9}$
$\frac{5}{3}$	-1.26



4 Look at the following statements. Choose True or False for each statement.

- A The difference of two rational numbers is always negative.  True  False  
 B A terminating decimal is always rational.  True  False  
 C The product of two rational numbers is never equal to 1.  True  False  
 D The sum of two rational numbers is sometimes zero.  True  False  
 E An integer is not a rational number.  True  False

- 5 Bill is playing a game. He chooses one fraction card and one decimal card that have the same value. What 2 cards might Bill choose?

$\frac{2}{3}$	$\frac{6}{8}$	$0.\bar{6}$	1.5	0.75	$1.\bar{3}$	1.25	0.83
$\frac{5}{4}$	$\frac{5}{6}$	0.8	$0.8\bar{3}$	1.2	0.67	1.3	1.33

**Answer** Bill could choose the fraction \_\_\_\_\_ and the decimal \_\_\_\_\_.

- 6 The table below shows some decimal equivalents for elevenths.

Fraction	Decimal
$\frac{1}{11}$	$0.\overline{09}$
$\frac{2}{11}$	$0.\overline{18}$
$\frac{3}{11}$	$0.\overline{27}$
$\frac{4}{11}$	
$\frac{5}{11}$	
$\frac{6}{11}$	
$\frac{7}{11}$	

### Part A

Describe one pattern you see in the repeated digits.

### Part B

Complete the table. Use division to check one answer.

**Self Check** Go back and see what you can check off on the Self Check on page 1.