

# Defining Percent

## Lesson 3-8

DATE

TIME

### Math Message

1 For each pair of statements, circle the statement that is most commonly used.

a. 50% of a cup in a recipe

OR

$\frac{1}{2}$  cup in a recipe

b. 25% off the regular price

OR

$\frac{25}{100}$  off the regular price

c. The toy costs \$0.75.

OR

The toy costs 75% of a dollar.

d. There is a 0.10 chance of rain.

OR

There is a 10% chance of rain.

2 A recent survey investigated how distracted people are when they cross the street.

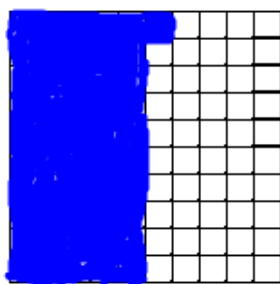
Here are the results:

- 51 percent talk on the phone while crossing the street.
- 34 percent listen to music while crossing the street.
- 26 percent text or email while crossing the street.

$$51\% = .51$$

Shade each percent on the grids below. Record the decimal and fraction equivalents.

Talk on the Phone

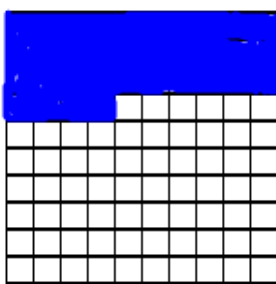


51%

Decimal:  $.51$

Fraction:  $\frac{51}{100}$

Listen to Music

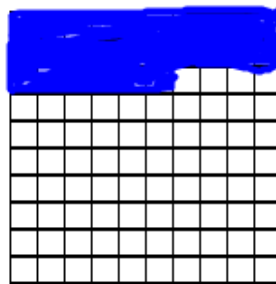


34%

Decimal:  $.34$

Fraction:  $\frac{34}{100} = \frac{17}{50}$

Text or Email



26%

Decimal:  $.26$

Fraction:  $\frac{26}{100} = \frac{13}{50}$

# Percent of Shaded Areas

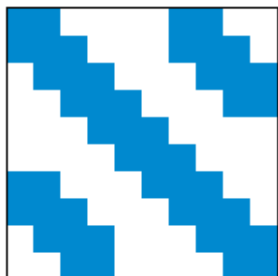
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For each figure, do the following:

- For Part a, estimate the percent of each 10-by-10 grid that is shaded.
- For Part b, use the transparent grid to check your estimates.



1 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

48%



2 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

56%



3 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

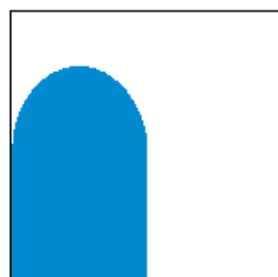
92%



4 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

37%

### Try This



5 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

36%



6 a. Estimate: \_\_\_\_\_  
b. Check: \_\_\_\_\_

40%



- 1 The number of cars in a bakery parking lot for the past six days were as follows:

10, 25, 15, 30, 22, 18

Mean: \_\_\_\_\_

Median: \_\_\_\_\_

SRB  
273-276

- 2 Cameron has 6 pounds of pears. A roasted-pears recipe requires  $1\frac{1}{2}$  pounds of pears. How many batches can he make?

Number sentence: \_\_\_\_\_

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

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196

- 3 Plot and label the following points on the number line:

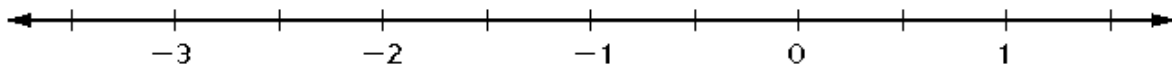
A:  $-2\frac{1}{2}$

B:  $-1\frac{1}{4}$

C:  $\frac{1}{8}$

D:  $-\frac{1}{8}$

E:  $-3\frac{1}{4}$



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94

- 4 Express each rate as an equivalent unit rate.

a. 180 miles on 3 gallons of gas

\_\_\_\_\_

b. 40 minutes for 4 miles

\_\_\_\_\_

c. \$4.50 for 10 ounces of trail mix

\_\_\_\_\_

SRB  
49-50

- 5 Tell if each statement is true or false. Hint: The value of the warmer temperature is the greater value.

a.  $-5^{\circ}\text{F} > -10^{\circ}\text{F}$  \_\_\_\_\_

b.  $6^{\circ}\text{C} < -14^{\circ}\text{C}$  \_\_\_\_\_

c.  $25^{\circ}\text{F} > -35^{\circ}\text{F}$  \_\_\_\_\_

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166