

15.2

Comparing Fractions, Decimals, & Percents

Today's Learning Goals:

- Compare and order fractions, decimals, and percents.
- Solve real-life problems.

Review: Putting it all together...

Fill in the table with the appropriate converted value.

Fraction	Decimal	Percent
$\frac{3}{8}$		
	0.65	
		85%
$\frac{5}{9}$		

Activity 1

Work with a partner. Decide which number is greater.

- a. 7% sales tax or $\frac{1}{20}$ sales tax b. 0.37 cup of flour or $\frac{1}{3}$ cup of flour
- c. $\frac{5}{8}$ -inch wrench or 0.375-inch wrench d. $12\frac{3}{5}$ dollars or 12.56 dollars

Comparing Frac, Dec., and Perc.

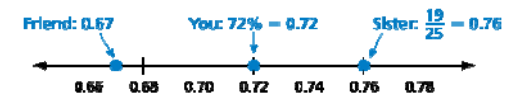
a. Which is greater, $\frac{3}{20}$ or 16%?

b. Which is greater, 79% or 0.08?

Real-Life Application

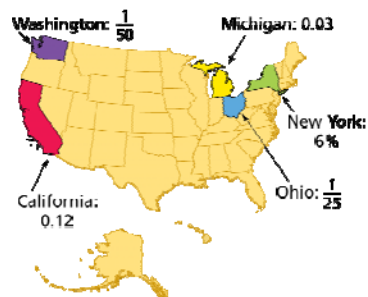
You, your sister, and a friend each take the same number of shots at a soccer goal. You make 72% of your shots, your sister makes $\frac{19}{25}$ of her shots, and your friend makes 0.67 of his shots. Who made the fewest shots?

Graph the decimals on a number line.



❖ 0.67 is the least number. So, your friend made the fewest shots.

Real-Life Application



The map shows the portions of the U.S. population that live in five states.

List the five states in order by population from least to greatest.

Activity 1

Work with a partner. Decide which number is greater.

e. 93% test score or $\frac{7}{8}$ test score

f. $5\frac{5}{6}$ fluid ounces or 5.6 fluid ounces

Activity 2

Work with a partner to order the following numbers.

$\frac{1}{8}$

11%

$\frac{3}{20}$

0.172

0.32

43%

7%

0.7

$\frac{5}{6}$

- a. Decide on a strategy for ordering the numbers. Will you write them all as fractions, decimals, or percents?

Activity 2

$\frac{1}{8}$

11%

$\frac{3}{20}$

0.172

0.32

43%

7%

0.7

$\frac{5}{6}$

- b. Use your strategy and a number line to order the numbers from least to greatest. (Note: Label the number line appropriately.)

