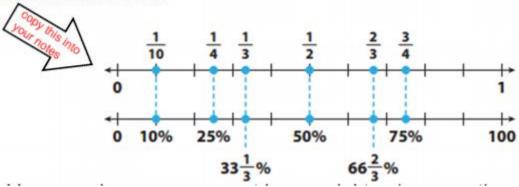
I can write a ratio as a percent.

Vocabulary: Percent- a ratio that compares a number to 100. The symbol % is used to show a percent. Percent means "per 100".

You can use certain benchmark percents to write other percents and to estimate fractions.



You can also use a percent bar model to show a ratio as a fraction and to find an equivalent percent.

To find the equivalent percent for  $\frac{1}{4}$ Draw a model to represent 100 and divide it into fourths. Color in  $\frac{1}{4}$  0  $\frac{1}{4}$   $\frac{2}{4}$   $\frac{3}{4}$   $\frac{1}{4}$   $\frac{1}{4}$ of 100 is 25, so  $\frac{1}{4}$  of 100% is \_\_\_\_\_

Glue this into your notebook....

The free-throw ratios for three basketball players are shown.

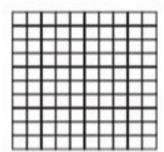
Player 3: 
$$\frac{15}{20}$$

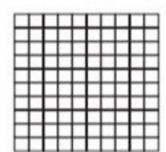
A Rewrite each ratio as a number compared to 100. Then shade the grid to represent the free-throw ratio.

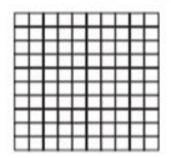
Player 1: 
$$\frac{17}{25} = \frac{100}{100}$$
 Player 2:  $\frac{33}{50} = \frac{100}{100}$  Player 3:  $\frac{15}{20} = \frac{100}{100}$ 

Player 2: 
$$\frac{33}{50} = \frac{100}{100}$$

Player 3: 
$$\frac{15}{20} = \frac{100}{100}$$







Which player has the greatest free-throw ratio? \_\_\_\_\_

How is this shown on the grids? \_\_\_\_

Use a percent to describe each player's free-throw ratio. Write the percents in order from least to greatest.

STEP 1 Write 
$$\frac{3}{10}$$
 as a multiple of a benchmark fraction.

$$\frac{3}{10} = 3$$

**STEP 2** Find an equivalent percent for 
$$\frac{1}{10}$$
.

$$\frac{1}{10} =$$

$$\frac{3}{10} = 3 \cdot \frac{1}{10} = 3 \cdot \frac{\%}{10} = \frac{\%}{10}$$

## B 76% of the students at a middle school bring their own lunch. About what fraction of the students bring their own lunch?

$$75\% = \frac{3}{4}$$

About  $\frac{3}{4}$  of the students bring their own lunch.

## Let's do these together...

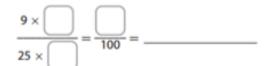


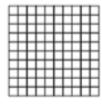
Use a benchmark to find an equivalent percent for each fraction.

- **2.**  $\frac{9}{10}$
- 3. <sup>2</sup>/<sub>5</sub>\_\_\_\_\_
- 4. 64% of the animals at an animal shelter are dogs. About what fraction of the animals at the shelter are dogs?

## Practice these problems on your own.

Shade the grid to represent the ratio <sup>9</sup>/<sub>25</sub>. Then find a percent equivalent to the given ratio. (Explore Activity 1)





2. Use the percent bar model to find the missing percent. (Explore Activity 2)



Identify a benchmark you can use to find an equivalent percent for each ratio. Then find the equivalent percent. (Example 1)

- **3.** 6 Benchmark: 1
- 4. <sup>2</sup>/<sub>4</sub> Benchmark:
- **5.**  $\frac{4}{5}$  Benchmark:
- 6. 41% of the students at an art college want to be graphic designers. About what fraction of the students want to be graphic designers? (Example 1)

## **ESSENTIAL QUESTION CHECK-IN**

7. How do you write a ratio as a percent?