Understand Percent

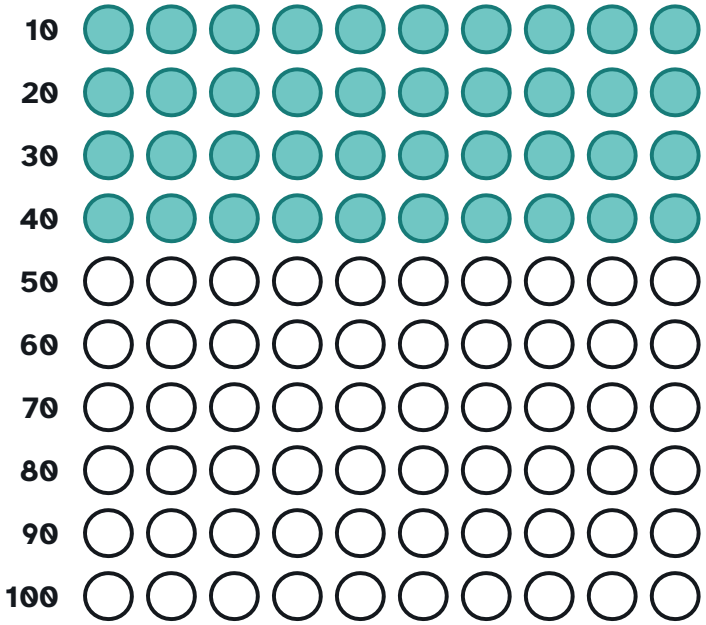
Explain a percent as a rate per 100 and show it on a grid or tape diagram.

Name _____ **Date** _____

Tonight's spark

Students voted for a school mascot. 4 out of every 10 voters chose the tiger. The poster needs a percent. What percent of the voters chose the tiger?

Make a guess first: is the percent closer to 4% or to 40%?



40 out of 100 squares = 40%

Our class model: the 100-grid

Try it

Work it out on paper. Write one answer on each line.

1 **Percent means 'per hundred'. 30% means 30 out of what number?**

A. 10 **B.** 100 **C.** 30 **D.** 1,000

My answer _____

2 **On a 100-grid, 45 squares are shaded. What percent is shaded?**

A. 45% **B.** 55% **C.** 4.5% **D.** 100%

My answer _____

3 **Write 7 out of 10 as a percent.**

A. 7% **B.** 17% **C.** 0.7% **D.** 70%

My answer _____

4 **Write 1 out of 20 as a percent.**

A. 20% **B.** 1% **C.** 5%

My answer _____

5 **Which fraction with 100 on the bottom equals 2 out of 5?**

A. 25/100 **B.** 40/100 **C.** 20/100 **D.** 52/100

My answer _____

6 **12 out of 20 students bring lunch from home. What percent bring lunch?**

A. 60% **B.** 12% **C.** 20% **D.** 32%

My answer _____

Talk about it

Percent means out of how many?

Home mission

Line up 10 spoons. Say, "4 out of 10 voted for the tiger." Ask your student: if there were 100 spoons, how many would be for the tiger? What percent is that?

If we get stuck, ask

- How many would that be out of 100?
- What do you multiply the bottom number by to reach 100?
- Did you multiply BOTH numbers by that?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/4-1/homework.html

How did it feel? (optional)

Tricky Getting there Got it