

Date: _____

KEY

8.1 Representing Percents

Can you think of places in "real life" where we use percents?

- cell phone battery life
- taxes or sales

Where do you think the word Percent comes from, and what does it mean?

"per" "cent"

↓ ↓

divided by one hundred

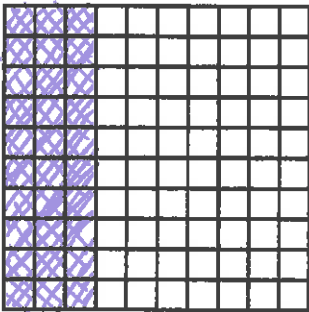
Percent can be represented in a variety of different ways. Can you think of them?

fraction decimal percent

Barrington received 45 out of 50 on his recent math test. Represent his test percentage in three different ways.

$$\frac{45}{50} = 0.9 = 90\%$$

Try and represent 30% on the grid below?



$$30\% = \frac{30}{100}$$

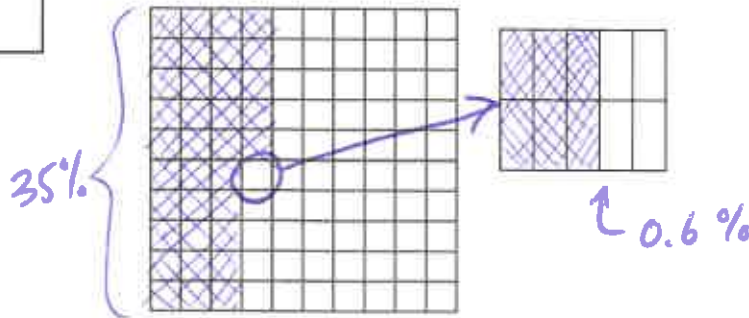
Is there any way to represent a percent like 120% on a graph similar to the one above?

Use two grids. Fill one to 100% and the other to 20%.

How can we represent a percent between 0 and 1? This is called a fractional percent

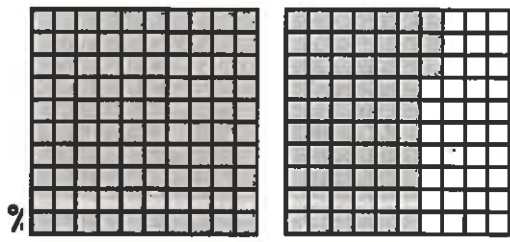
Try 35.6%

$$35\frac{6}{10}\%$$

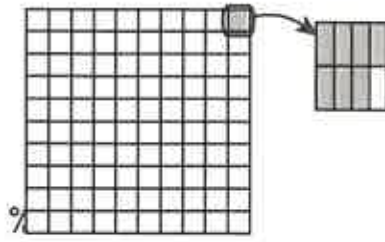


Example 1

What percentage is represented by the following charts?

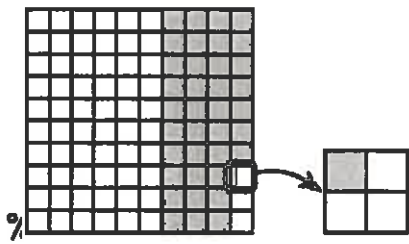


163%



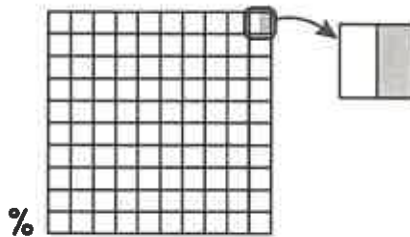
$\frac{7}{8}\%$

0.875%



$37\frac{1}{4}\%$

37.25%



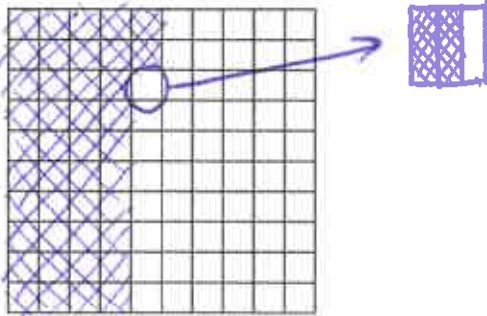
$\frac{1}{2}\%$

0.5%

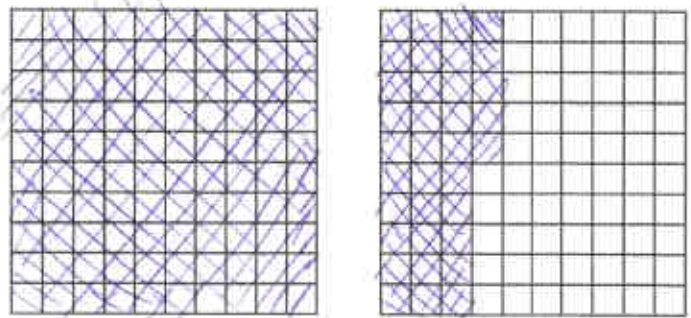
Example 2

Use the graphs below to represent the indicated percent.

$42\frac{2}{3}\%$



135%



0.3% of Earth's fresh water is found in lakes and rivers.

$\frac{3}{10}\%$

