

Lesson 6-1

Percents %

What is a percent?

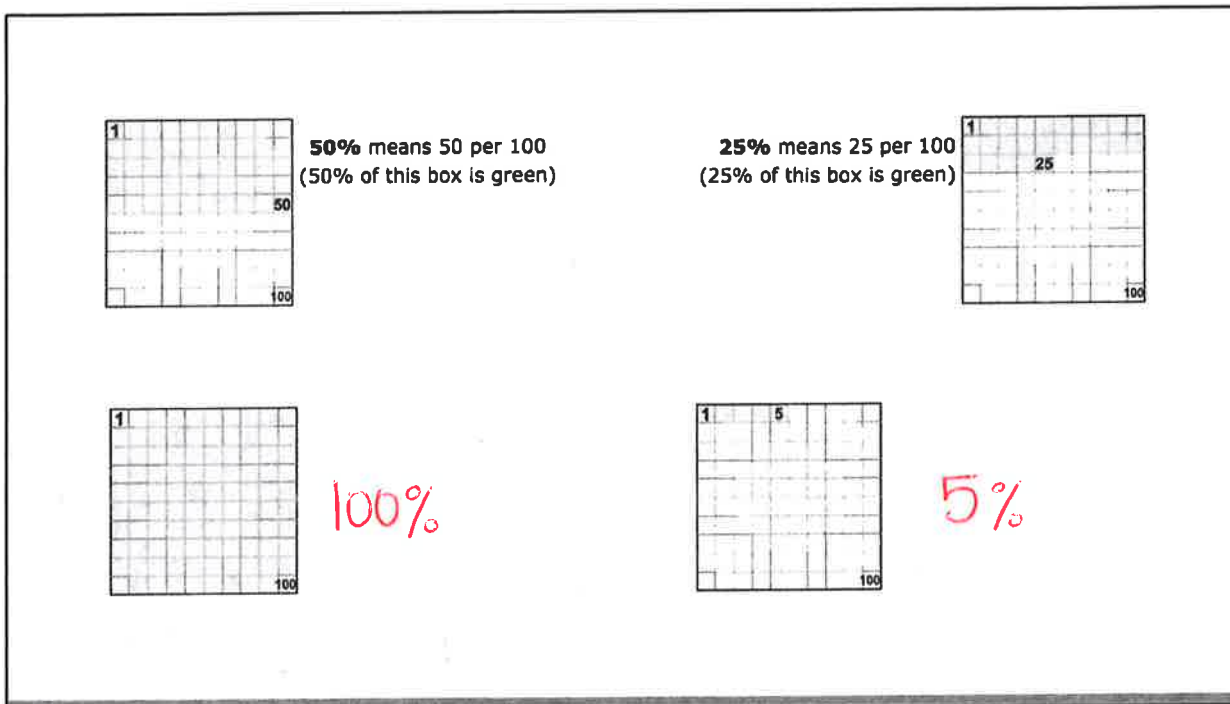
What do you think?

part of a whole

Where do we see percents?

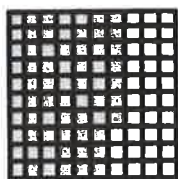
battery life of phone, sale at mall

Brainpop



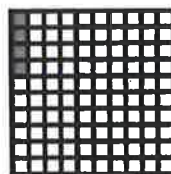
Percents as Fractions

We can write percents as fractions:



67%

$$\frac{67}{100}$$



4%

$$\frac{4}{100}$$

Percents as Decimals

We can also write percents as decimals:

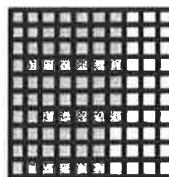


A Half can be written...

As a percentage: 50%

As a decimal: 0.5

As a fraction: $\frac{1}{2}$



67%

$$\frac{67}{100} = 0.67$$

You Try!

Write the percents below as a fraction and a decimal.

Percent	Fraction	Decimal
30%	$\frac{30}{100}$	0.30
7%	$\frac{7}{100}$	0.07
78%	$\frac{78}{100}$	0.78
100%	$\frac{100}{100}$	1.00

Ratios to Percents

Write the ratio as a percent:

Example:

$$\frac{1}{5} = \frac{x}{100}$$

$$\frac{100}{5} = \frac{5x}{5}$$

$$20 = x$$

$$\boxed{20\%}$$

$$\frac{1}{5} = 20\%$$

You Try!

Change the ratios below to percents:

$$\frac{3}{10} = \frac{x}{100}$$

$$\frac{300}{10} = \frac{10x}{10}$$

$$30 = x$$

$$\boxed{30\%}$$

$$\frac{24}{25} = \frac{x}{100}$$

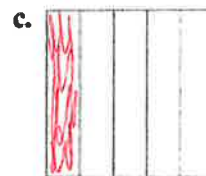
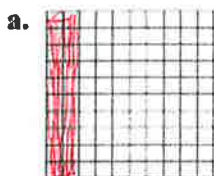
$$\frac{2400}{25} = \frac{25x}{25}$$

$$x = 96$$

$$\boxed{96\%}$$

Ratios to Percents

Write a ratio or fraction for each model below, then change to a percent:



Percent of a Number

Sometimes we want to find a percent of a given number that is NOT 100.

We can use a proportion to find the percent of a given number.

Ex) Calculate 25% of 80