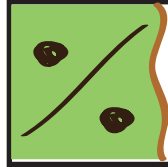
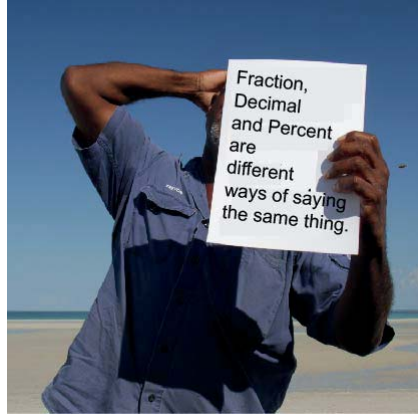


$+$ $-$
 \div \times
 Navigation Maths



Fraction, Decimal Percent



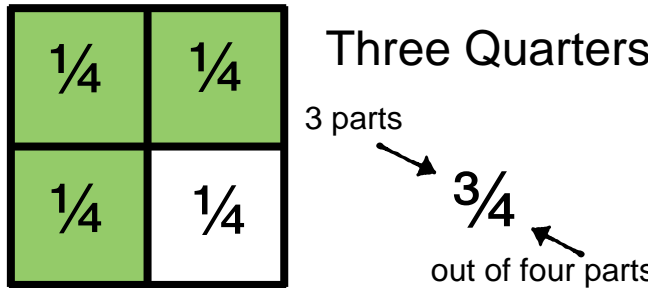
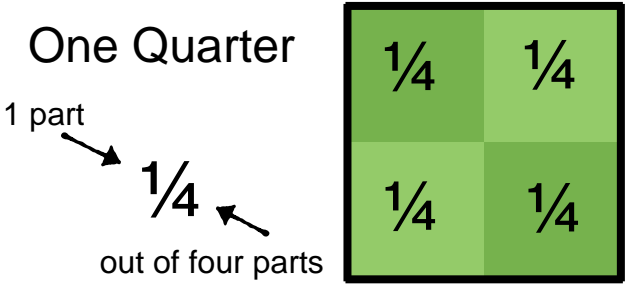
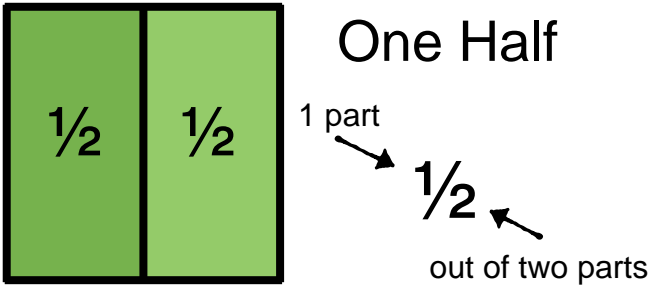
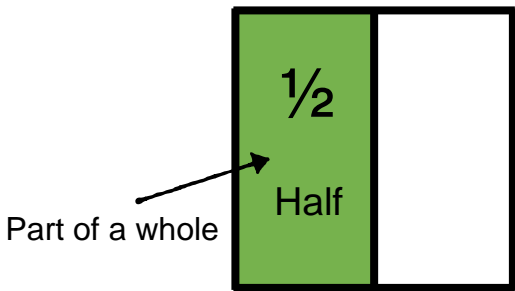
25 8
 3⁵⁰⁰ 2⁴⁵
 10^{2 579} 1

Whole numbers
More than 1

$\frac{1}{2}$ 10%
 Quarter $\frac{3}{4}$
 $\frac{1}{4}$ 25%
 0.25 0.5

Parts of a whole
Less than 1

Fractions



Each part is exactly the same

Percent is a fraction out of 100.

The symbol for percent looks like the number 100

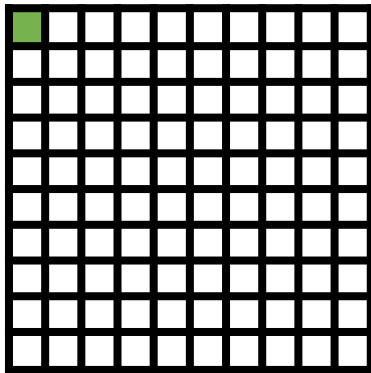
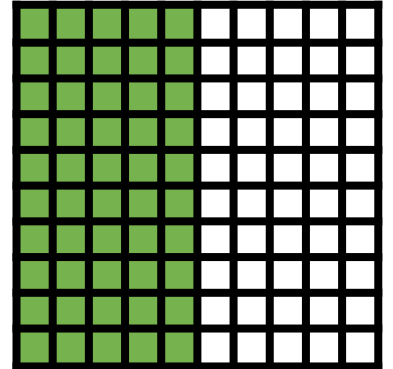
%

This grid has 100 squares

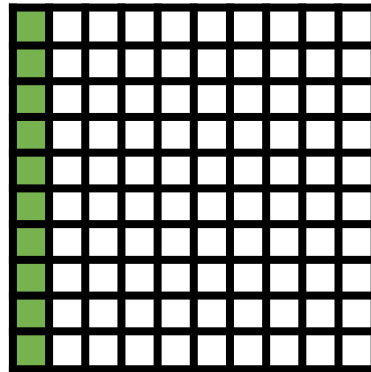
If we colour in 50 of them we make a fraction 50 out of 100.

Percent is a fraction out of 100

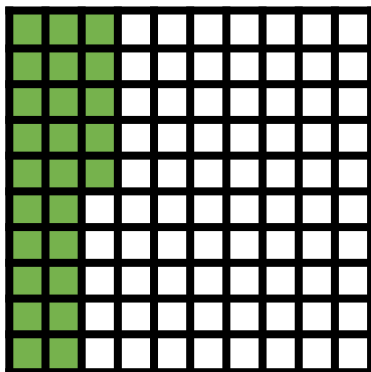
$\frac{50}{100}$
50%
fifty percent



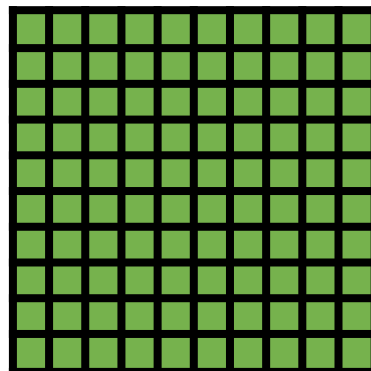
$\frac{1}{100}$
1%
one percent



$\frac{10}{100}$
10%
ten percent



$\frac{25}{100}$
25%
twenty five percent

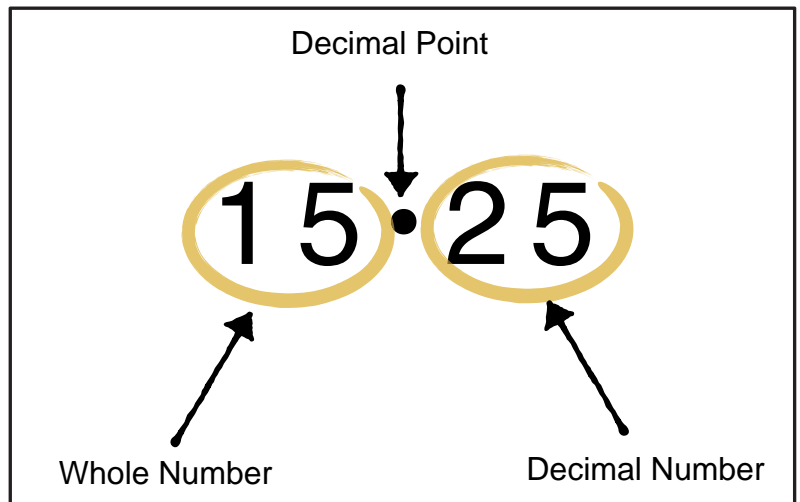


$\frac{100}{100}$
100%
one hundred percent

Decimal numbers are a type of fraction.

A decimal number is smaller than 1

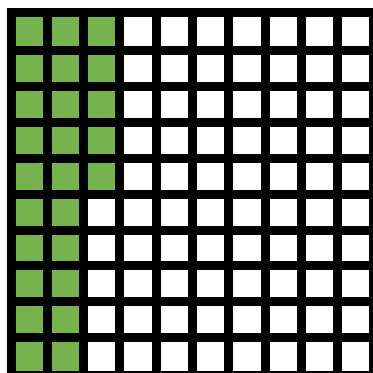
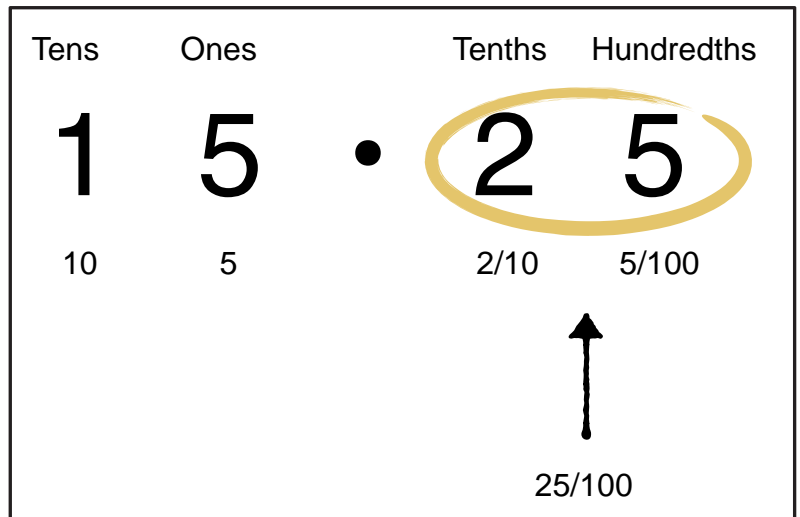
The decimal point separates a whole number from a decimal number.



Decimal numbers are a type of fraction.

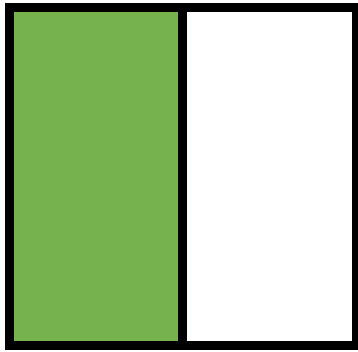
They can be fractions out of 10 or 100 or 1000 or 10,000 and so on.

This depends on the place value



$$\frac{25}{100} = 0.25$$

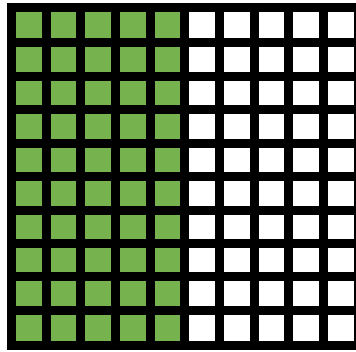
Fractions, decimal and percent are all ways of saying the same thing.



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

Half

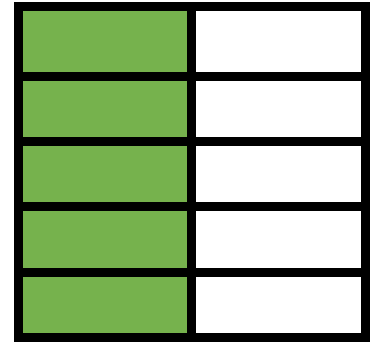
=



$$50\% = \frac{50}{100}$$

Fifty percent

=



$$0.5 = \frac{5}{10}$$

zero point five

Calculations

Half an hour

60 minutes in one hour, 60 squares on this grid.

To find half an hour we need to split into two even pieces

To find half - $60 \div 2 = 30$



$$60 \div 2 = 30$$

$$\frac{1}{2} = \frac{30}{60}$$

half an hour = 30 minutes

Calculate percentage using this formula.

$$\% \div 100 \times \text{litres}$$

To find 30% of 50 litres of fuel

$$30 \div 100 \times 50 = 15 \text{ litres}$$

To find 30% of 200 litres of fuel

$$30 \div 100 \times 200 = 60 \text{ litres}$$