Vocabulary
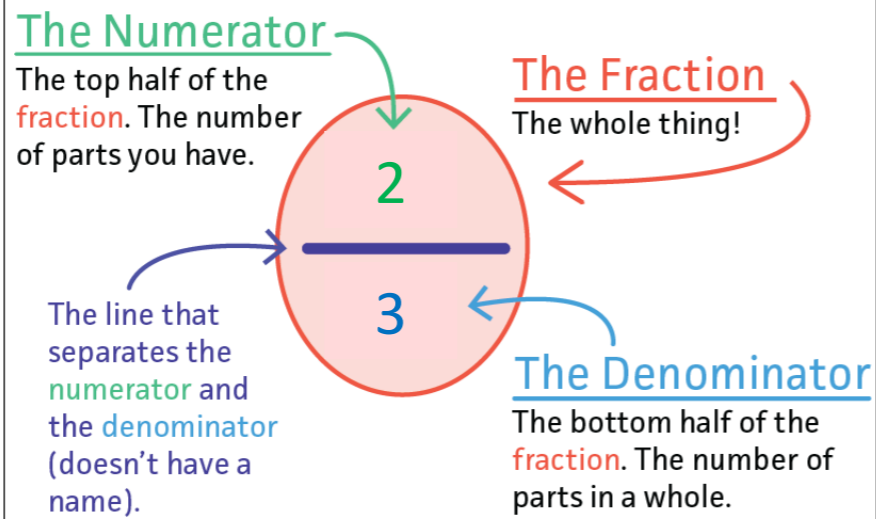
- Fractions
- Denominator
- Numerator
- Equivalent
- Bar model
- Parts
- Equal
- Tenths
- Half
- Quarters
- Thirds
- Decimal place (DP)

Round decimals to the nearest whole number

Rounding rhyme – 0,1,2,3,4 stays the number before

5,6,7,8,9 rounds up on the number line

4.73

1. Look at the first DP

2. The digit is a 7 so it must round up to 5 as it is closer to 5.

4.73 → 5

What is a fraction?

The Numerator – The top half of the fraction. The number of parts you have.

The Fraction – The whole thing!

$$\frac{2}{3}$$

The line that separates the numerator and the denominator (doesn't have a name).

The Denominator – The bottom half of the fraction. The number of parts in a whole.

Adding and subtracting fractions

You do not add or subtract the denominator as this just tells you how many parts there are.

$$\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$$
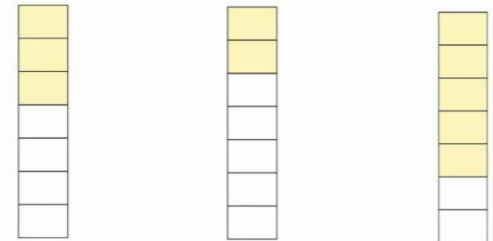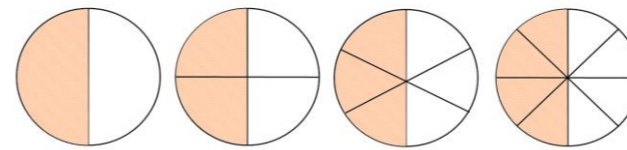
$$\frac{3}{7} - \frac{2}{7} = \frac{1}{7}$$

Compare decimals
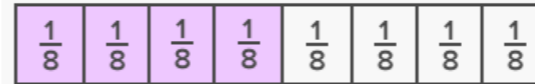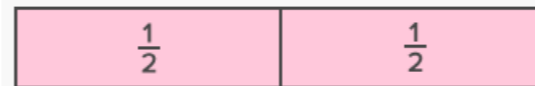
Which is larger: 0.73 or 0.39?

Look at the first DP. Which is larger?

0.73   0.39   0.73 is larger as 7 is greater than 3

Equivalent fractions

Fractions that have the same value.

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$$

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

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

Fractions and decimals Y3/4

Fractions of an amount

Rule – Divide by the bottom, times by the top.
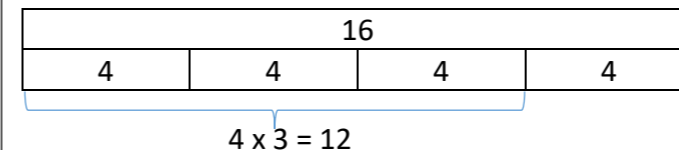
Find $\frac{1}{2}$ of 8.

Divide by 2 (count in twos to help)

4 and then times by the top

4 x 1 = 4
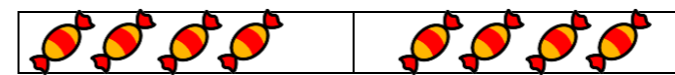
Find $\frac{3}{4}$ of 16.

1. Divide by the bottom. 16 ÷ 4 = 4

16			
4	4	4	4

4 x 3 = 12

Count in tenths

Tenths means dividing by 10.

$\frac{1}{10}$ = 0.1

$\frac{2}{10}$ = 0.2

$\frac{3}{10}$ = 0.3

$\frac{4}{10}$ = 0.4

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

$\frac{6}{10}$ = 0.6

$\frac{7}{10}$ = 0.7

$\frac{8}{10}$ = 0.8

$\frac{9}{10}$ = 0.9
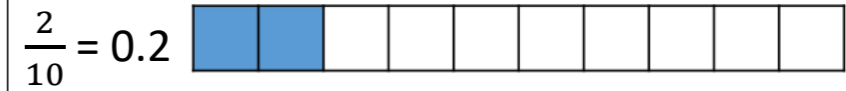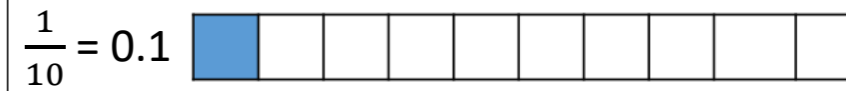
Counting in hundredths

Hundredths means dividing by 100.

$$\frac{1}{100} \quad \frac{2}{100} \quad \frac{3}{100} \quad \frac{4}{100} \quad \frac{5}{100} \quad \frac{6}{100}$$

$$\frac{7}{100}$$

$$\frac{1}{100} = 0.01 \quad \frac{2}{100} = 0.02$$