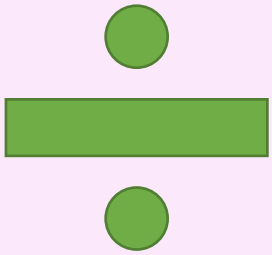
Maths

Year 6 – Fractions



Simplify

$\frac{2}{5}$ of 35

$\frac{4}{7}$ of 56

Ratio

4:5

Proportion

$\frac{4}{9}$ $\frac{5}{9}$

Fractions

Children should be able to multiply and divide fractions by fractions and whole numbers.

Children should be able to find fractions of amounts.

Children should be able to demonstrate how they would simplify a fraction.

Children should be able to define percentage.

Children should know how to calculate the percentage of an amount.

Children should know percentage, fraction and decimal equivalents (0.25, 0.5, 0.75, 1)

Children should be able to define ratio and proportion.

Vocabulary

Simplify	Ratio
Fractions of amounts	Proportion

Maths

Year 6 – Number

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
5 ,	0	3	2 ,	5	3	8 •	7	2	1

Round 5,245,876

to the nearest 1,000,000	
to the nearest 100,000	
to the nearest 10,000	
to the nearest 1,000	

Number

Children should be able to recognise the millions, hundred thousands and thousandths columns. They should also understand when to use a comma.

Children should be able to round a number to different place values.

Children should be able to read roman numerals (including dates).

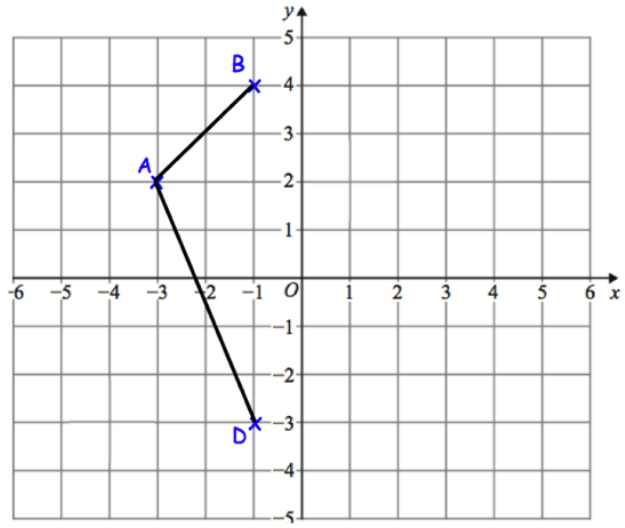
Vocabulary

Millions
Hundred thousands
Thousandths

Maths

Year 6 – Position and direction

A, **B**, **C** and **D** are the vertices of a kite.



Write the coordinates of point ***C***

(,)

Position and direction

Children should know that there are four quadrants.

Children should be able to locate coordinates within all quadrants.

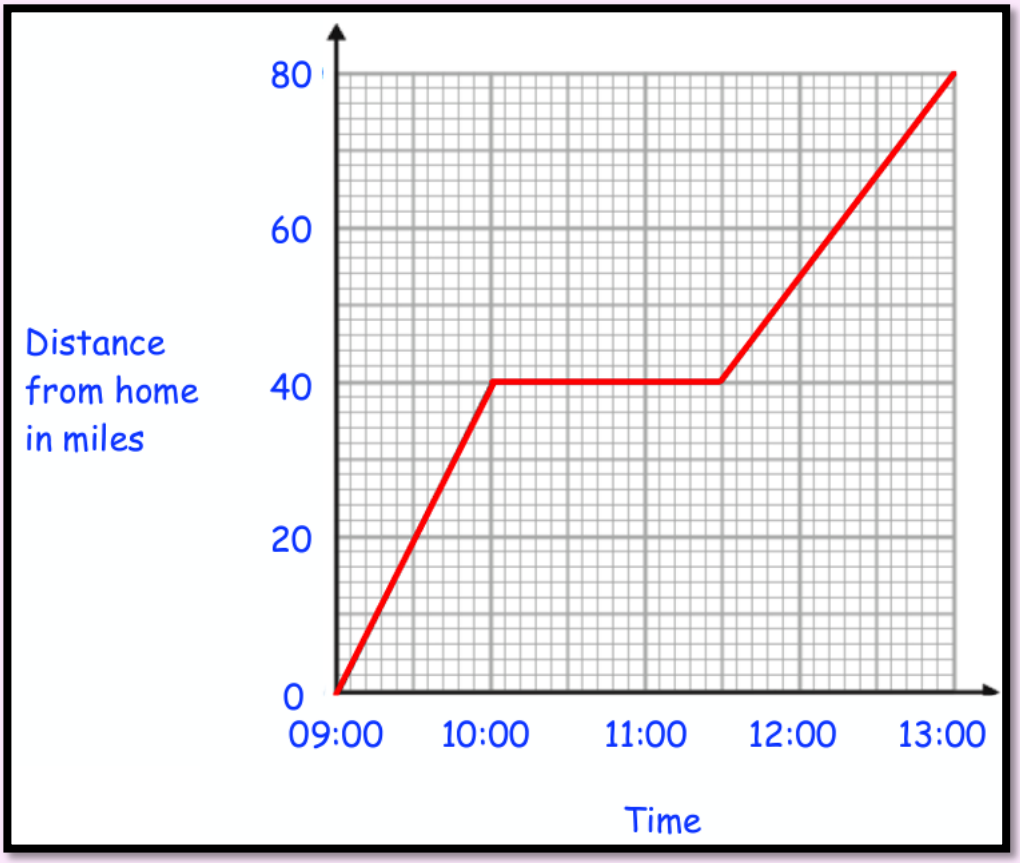
Children should be able to locate missing coordinates of known 2D shapes.

Vocabulary

Four quadrants

Maths

Year 6 – Statistics



Mean

Frequency

Mode

Median

Range

Statistics

Children should be able to describe a journey based on a time vs distance graph, including stops.

Children should be able to calculate the mean, mode, median and range for a selection of data.

Children should be able to define frequency.

Vocabulary

Time vs distance graph
Mode
Median
Mean
Range
Frequency

Maths

Year 6 – Time

	Departure times			
Antrim	12:30	13:00	14:00	16:00
Randalstown	12:45	13:15	14:15	16:15
Ballymena	13:01	13:31	14:31	16:31
Ballycastle	13:39	14:09	15:09	17:09

These are the opening times at Black Tower Castle.

Monday	Closed
Tuesday to Friday	11am to 6:30pm
Saturday	10am to 6pm
Sunday	10:30am to 4:30pm

Time

Children should be able to interpret information from time tables.

Children should be able to solve problems involving timings.

Vocabulary

Time tables
Departure
Arrival

Maths

Year 6 –Measure

Imperial	Metric
1 inch	about 2.5 cm
1 foot	30 cm
1 yard	almost 1 m
1 mile	just over 1.5 km
1 ounce	about 30 g
1 pound	about half a kg
1 stone	about 6.5 kg
1 pint	just over half a litre
1 gallon	about 4.5 litres

$\frac{1}{4}$ m = 25cm

$\frac{3}{4}$ kg = 750g

$\frac{1}{2}$ km = 500m

Measure

Children should be aware of imperial measurements and their metric equivalent.

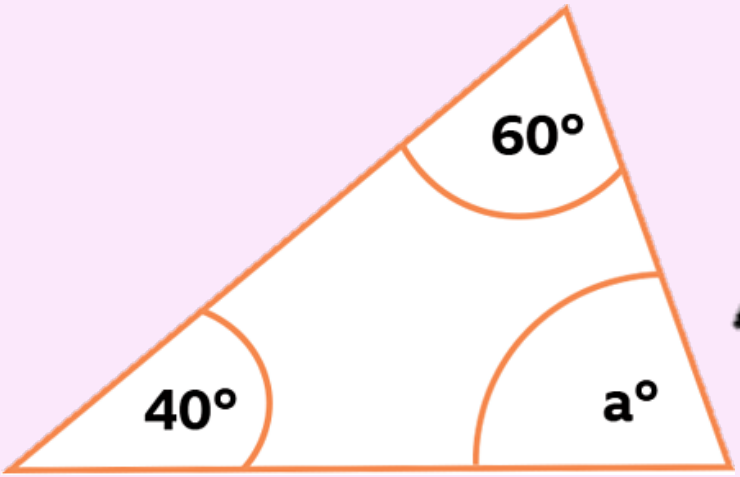
Children should be able to convert between fractions and whole units of measure.

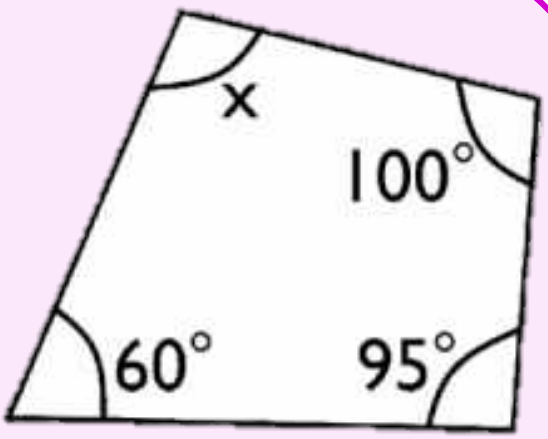
Vocabulary

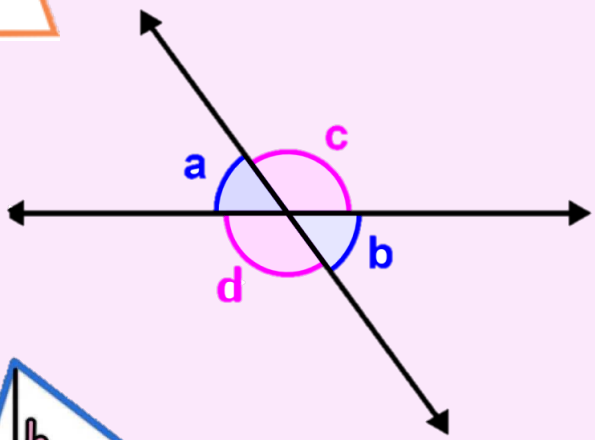
Imperial
Metric
Inch
Foot
Yard
Mile
Ounce
Pound
Stone
Pint
Gallon

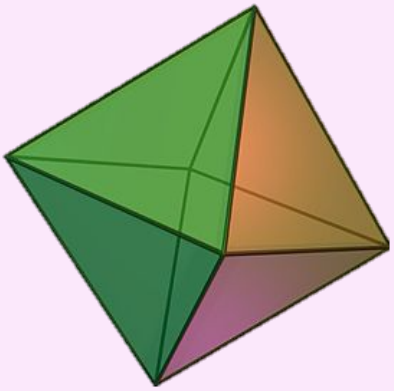
Maths

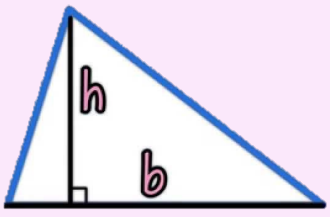
Year 6 – Shape

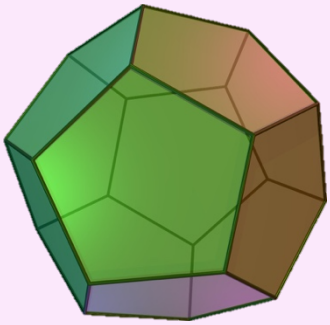




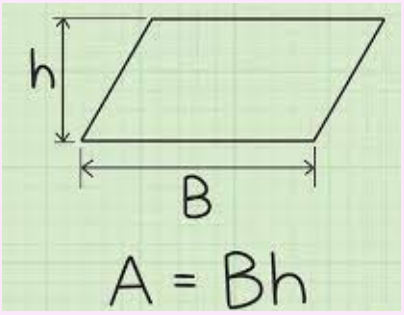








$$\text{Area} = \frac{1}{2} \times b \times h$$



Shape

Children should know that the angles in a triangle add up to 180°.

Children should know that angles in a quadrilateral add up to 360°.

Children should know that opposite angles are equal.

Children should be able to recognise and name an octahedron and a dodecahedron.

Children should know how to calculate the area of a triangle and parallelogram.

Vocabulary

Opposite angles
Octahedron
Dodecahedron

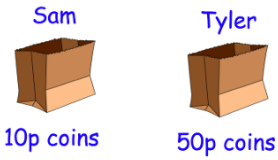
Maths

Year 6 – Money

Sam has a bag of 10p coins.
Tyler has a bag of 50p coins.

Both bags have the same amount of money inside.

There are **forty** 10p coins in Sam's bag.



How many 50p coins are there in Tyler's bag?

Tomas bought a new car that cost £18,000
He paid a deposit of £2,000.

Tomas paid the rest of the money over 50 equal monthly payments.

How much was each monthly payment?

Money

Children should be able to calculate percentages of prices.

Children should be able to solve problems involving coins, instalments and sales offers.

Children should be able to define debit and credit.

Vocabulary

Invoice
Debit
Credit
Instalment