Multiplication and division vocabulary			
Term	Definition	Example	
factor	a number that divides exactly into another number	factors of 12 = 1, 2, 3, 4, 6, 12	
common factor	factors of two numbers that are the same	common factors of 8 and 12 = 1, 2, 4	
prime number	a number with only 2 factors: 1 and itself	2, 3, 5, 7, 11, 13, 17, 19	
composite number	a number with more than two factors	12 (it has 6 factors)	
prime factor	a factor that is prime	prime factors of 12 = 2, 3	
multiple	a number in another number's times table	multiples of 9 = 9, 18, 27, 36	
common multiple	multiples of two numbers that are the same	common multiples of 4 and 6 = 12, 24	
square numbers	the result when a number has been multiplied by itself	25 (5 ² = 5x5) 49 (7 ² = 7x7)	
cube numbers	the result when a number has been multiplied by itself 3 times	$8 (2^3 = 2x2x2)$ $27 (3^3 = 3x3x3)$	

Fractions, decimals &	percentages
-----------------------	-------------

_	ictions, accimais a percentages			
	1/100	0.01	1%	÷ 100
	1/20	0.05	5%	÷ 20
	1/10	0.1	10%	÷ 10
	1/5	0.2	20%	÷ 5
	1/4	0.25	25%	÷ 4
	1/2	0.5	50%	÷ 2
	3/4	0.75	75%	÷ 4, x3
	1/8	0.125	12.5%	÷ 8
	1	1	100%	÷ 1

Horizontal line

Vertical line

Angles

<u></u>	
full turn	360°
half turn	180°
right angle	90°
acute angle	< 90°
obtuse angle	> 90°
reflex angle	>180°
angles on a straight line	180°
angles inside a triangle	180°
angles inside a quadrilateral	360°

$\underline{\textbf{Shape vocabulary}} \ \textbf{perimeter} = \textbf{measure around the edge (circumference}$

parallel lines

Perpendicular lines

= perimeter of a circle)



Roman numerals

1	I	100	С
5	V	500	D
10	Χ	1000	М
50	L		

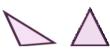
Year 6 Knowledge organiser

2D shapes

Name	No. of sides
quadrilateral	4
pentagon	5
hexagon	6
heptagon	7
octagon	8
nonagon	9
decagon	10

polygon = shape with straight sides regular = all sides/angles the same irregular = sides/angles **not** same

Types of triangle





scalene equilateral isosceles

Types of quadrilateral



AREA

is the amount of space inside a 2D shape usually $\label{eq:measured} \text{measured in } cm^2 \text{ or } m^2.$

Area of a triangle = (base x height) ÷ 2 Area of a parallelogram = base x height

(Height = perpendicular height)

Measurement conversions

Month	Days
January	31
February	28 (29 in leap year)
March	31
April	30
May	31
June	30
July	31
August	31
September	30
October	31
November	30
December	31

1 cent imetre	10mm
1 metre	100cm
1 kilo metre	1,000 m
1 mile	1.6 km
1 kilometre	0.625 (⁵ / ₈) mile
1 kilo gram	1,000 grams
1 litre	1,000 millilitres

Co-ordinates

Read co-ordinates along the x axis (horizontal) first, then the y axis (vertical). E.g. (3, -4) = go right 3, down 4.

<u>3D shapes</u>	square- based pyramid	triangularbased pyramid (tetrahedron)	triangular prism
faces (the flat sides)	5	4	5
edges	8	6	9
vertices (the points where the edges meet)	5	4	6

Volume = the amount of space a 3D shape takes up, usually measured in cm³ or m³



Volume of a cuboid = length x width x height

The mean

The mean is a type of average. To find the mean, add up all the numbers and divide by how many there are. E.g. the mean of 4, 5,3,4 is 4. (Because 4+5+3+4=16, and $16 \div 4=4$)