

2D shapes

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

Regular = all sides/angles the same Irregular = sides/angles not same **Types of triangle**

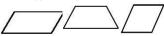






scalene equilateral isosceles

Types of quadrilateral



Parallelogram Trapezium Rhombus **AREA**

is the amount of space inside a 2D shape usually measured in cm² or m².

Area of a triangle

= (base x height) \div 2

Area of a parallelogram

= base x height

Multiplication and division vocabulary

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

Shape vocabulary

Perimeter = measure around the edge of a shape.

horizontal line

vertical line

parallel lines

(at right angles)

perpendicular lines

diameter (= radius x 2)

Circumference = perimeter of a circle

Year Six Maths Knowledge Organiser

Measurement conversions

1 cent imetre	10mm
1 metre	100cm
1 kilo metre	1,000 m
1 mile	1.6 km
8 kilometre	5 miles
1 kilo gram	1,000 grams
1 litre	1,000
	milli litres

Fractions, decimals & percentages

1/100	0.01	1%
1/20	0.05	5%
1/10	0.1	10%
1/8	0.125	12.5%
1/5	0.2	20%
1/4	0.25	25%
1/3	0.33	33%
2/5	0.4	40%
1/2	0.5	50%
3/4	0.75	75%
1	1	100%

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

Rc man numera s 100 C 5 500 D 10 Χ 1000 M Remember -50 No more than 3 in a row!

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 $16 \div 4 = 4$)

Thirty days hath September, April, June, and November, all the rest have thirty-one except February which has 28.

Angles: Full turn = 360° Half turn = 180° Right angle = 90° acute angle = <90° obtuse angle = > 90° reflex angle = >180° angles on a straight line = 180° opposite angles = same angles in a triangle = 180° angles in a quadrilateral = 360°