Multiplication and division vocabulary

		·	
Term	' Definition	Example	
factor	a number that divides exactly	factors of 12 =	
Tactor	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		
composite	a number with more than	12	
number	two factors	(it has 6 factors)	
prime factor	a factor that is prime	prime factors of 12 =	
prime factor	a factor tracts prime	2, 3	
multiple	a number in another	multiples of 9 =	
multiple	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 (7² = 7x7)	
cube	the result when a number has	$8(2^3 = 2x2x2)$	
numbers	been multiplied by itself 3 times	$27(3^3 = 3x3x3)$	

Fractions, decimals & 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	1	100%	÷ 1

Angles

full turn	360°
half turn	180°
	90°
right angle	
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°

Shape vocabulary

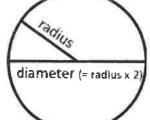
perimeter = measure around the edge (circumference = perimeter of a circle)

horizontal line

parallel lines

vertical line

perpendicular lines (at right angles)



Roman numerals

1	1	100	С
5	V	500	D
10	X	1000	M
50	L	N.	

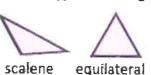
YEAR 6 MATHS
KNOWLEDGE
ORGANISER

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

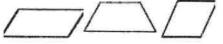
Types of triangle





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) ÷ 2 Area of a parallelogram = base x height

[Heinht = nernendicular heinht]

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
1 205	J ([_]]

1 year = 365 days (≈ 52 weeks) Leap year = 366 days

1 centimetre	10mm
1 metre	100cm
1 kilometre	1,000 m
1 mile	1.6 km
1 kilometre	0.625 (⁵/₅) mile
1 kilogram	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.

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

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 $16 \div 4 = 4$)