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 number	a number with only 2 factors: 1 and itself	2, 3, 5, 7, 11, 13, 17, 19
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 = 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	$49 (7^2 = 7x7)$
cube	the result when a number has	$8(2^3 = 2x2x2)$
numbers	been multiplied by itself 3 times	$27 (3^3 = 3x3x3)$

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

360°
180°
90°
< 90°
> 90°
>180°
180°
180°
360°

Shape vocabulary

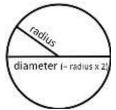
perimeter = measure around the edge (circumference = perimeter of a circle)

horizontal line

parallellines

vertical line

perpendicular lines (at right angles)



Roman numerals

1	ı	100	С
5	V	500	D
10	Χ	1000	M
50	L		

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

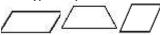
polygon = shape with straight sides regular = all sides/angles the same irregular = sides/angles **not** same

Types of triangle



scalene equilateral isosceles

Types of quadrilateral



parallelogram trapezium rhombus

AREA

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

> Area of a triangle = (basexheight) ÷ 2 Area of a parallelogram

= basexheight

(Height = nernendicular height)

Measurement conversions

Month	Days	
January	31	
February	28 (29 in leapyear)	
March	31	
April	30	
May	31	
June	30	
July	31	
August	31	
September	30	
October	31	
November	30	
December	31	
1 year = 365 days (≈ 52 weeks)		
Leap year = 366 days		

10mm
100cm
1,000 m
1.6 km
0.625 (⁵ / ₈) mile
1,000 grams
1,000 millilitres

Co-ordinates

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

3D shapes			
	square-based	triangular-	triangular
	pyramid	based pyramid	prism
faces	5	4	5
(the flat sides)			
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 $16 \div 4 = 4$)