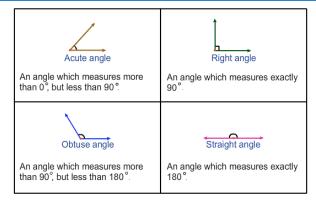
## Multiplication and division vocabulary

Term	Definition	Example	
factor	a number that divides exactly	factors of 12 =	
factor	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	
product	result of two factors	3 x 5 = <u>15</u>	
product	multiplied against each other		
multiple	a number in another	multiples of 9 =	
multiple	number's times table	9, 18, 27, 36	

# **Angles**



## Fractions & decimals

1/20	0.05	÷ 20	
1/10	0.1	÷ 10	
1/5	0.2	÷ 5	
1/4	0.25	÷ 4	
1/2	0.5	÷ 2	
3/4	0.75	÷ 4, x3	
1	1	÷ 1	
Equivalent fractions			
1/4	2/8	3/12	
1/3	2/6	3/9	
1/2	2/4	3/6	
3/4	6/8	9/12	
1/5	2/10	3/15	

trapezium	
parallelogram	
rhombus	
rectangles	
kite	$\bigoplus \emptyset$
arrowhead	<b>&lt;</b>
irregular quadrilaterals	

### **Roman numerals**

1	1	50	L
5	V	100	С
10	Χ		

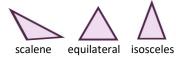
YEAR 4 MATHS
KNOWLEDGE
ORGANISER

## 2D shapes

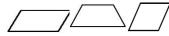
Name	No. of sides	
triangle	3	
quadrilateral	4	
pentagon	5	
hexagon	6	
heptagon	7	
octagon	8	
nonagon	9	
decagon	10	

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

## Types of triangle



## Types of quadrilateral



parallelogram trapezium rhombus

#### PERIMETER

Is the total distance around a shape.

#### AREA

Is the amount of space inside a 2D shape usually measured in cm<sup>2</sup> or m<sup>2</sup>.

#### **Measurement conversions**

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

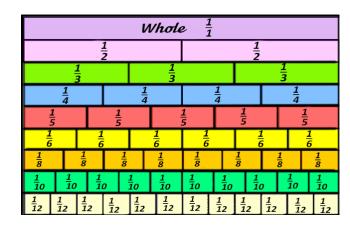
Leap year = 366 days

1 <b>cent</b> imetre	10mm
1 metre	100cm
1 <b>kilo</b> metre	1,000 m
1 <b>kilo</b> 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.

3D shapes			
	square-based	triangular-based	triangular
	pyramid	pyramid	prism
faces	5	4	5
(the flat sides)	,	7	,
edges	8	6	9
vertices			
(the points where	5	4	6
the edges meet)			



Numerator

Denominator

Equivalent

Fraction

Part

Whole

Equal