Fractions, decimals and Angles percentages \pm =0.5 =5 tenths =50 hundredths=50% $\frac{1}{2}$ = 0.25 = 25 hundredths = 25% $\frac{3}{7}$ = 0.75 = 75 hundredths = 75% **Equivalent fractions** Whatever you do to the **numerator**, you do the same to the **denominator**: $\frac{2}{5} = \frac{4}{10} = \frac{8}{20}$ **Adding fractions** $\frac{3}{4} + \frac{3}{4} = \frac{6}{4} \text{ or } 1\frac{2}{4} \text{ or } 1\frac{1}{2}$ (The denominators must be the same) Subtracting fractions $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ (The denominator must be the same then you can subtract the smaller numerator from the larger numerator) Multiplying fractions $\frac{2}{5} \times \frac{4}{7} = \frac{8}{35}$ (Multiply the numerators together then multiply the denominators Meas together.) 1 m = **Dividing fractions** $\frac{4}{5} \div \frac{1}{2} = \frac{8}{5} \text{ or } 1\frac{3}{5}$ 1 cm = Turn the second fraction upside down 1 kg = $\left(\frac{2}{4}\right)$ then multiply as above. The 1 km = calculation becomes $\frac{4}{5} \times \frac{2}{1} = \frac{8}{5}$ **Percentages** 1 litre 25% of 360 is the same as 25% x 360 25% is the same as $\frac{1}{4}$ so half 360, then half again. Answer is 90. 7% of 500 = $10\% = 500 \div 10 = 50$ 5% = 50 ÷ 2 = 25 $1\% = 25 \div 5 = 5$ 7% = 5% + 1% + 1% Circles

$90^{\circ} = right angle$ 180° = straight line 360° = full turn

The angles inside a triangle add up to 180°.

Acute = less than 90°. **Obtuse** = between 90° and 180°. **Reflex** = greater than 180°.

Parallel lines never meet, like train tracks:

Perpendicular lines are at 90° to each other.

	ical:
Horizontal: —	L Vert

suromont	
100 cm	To convert from m to cm, multiply by 100.
= 10 mm	To convert from cm to mm, multiply by 10.
1000 g	To convert from kg to g, multiply by 1000.
= 1000 m	To convert from km to m, multiply by 1000.
= 1000 ml	To convert from I to mI, multiply by 1000.



<u>x by 10, 100, 1000</u>
x 10 = move digits one place to the left.
x 100 = move digits two places to the left.
x 1000 = move digits three places to the left.

WORTH IT.

Place Value Decimal Place Value Chart Hundred Thousandths Hundred Thousands Ten Thousandths Ten Thousands Hundredths Thousandths Millionths Thousands Hundreds Millions Ones • Tenths Tens M Hth TTh Th H T 0 • t h th tth hth m

To convert from cm to m divide by 100.
To convert from mm to cm, divide by 10.
To convert from g to kg, divide by 1000.
To convert from m to km, divide by 1000.
To convert from ml to l, divide by 1000.





<u>Shape</u>
Triangle = 3 si
Square = 4 eq
Rectangle = 4
Quadrilateral
Pentagon = 5
Hexagon = 6 s
Octagon = 8 si

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N	1M	ICL)	XXI	=







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-5 -4 -3 -2 -1 0 1 2 3 -2 -2 -3 -3 -3 -4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5



If A was translated 2 right and 3 down, the new co-ordinates would be (6, 1).

If A was **reflected** in the y axis, the new co-ordinates would be (-4, 4).

÷ by 10, 100, 1000

- \div 10 = move digits one place to the right. \div 100 = move digits two places to the right.
- \div 1000 = move digits three places to the right.