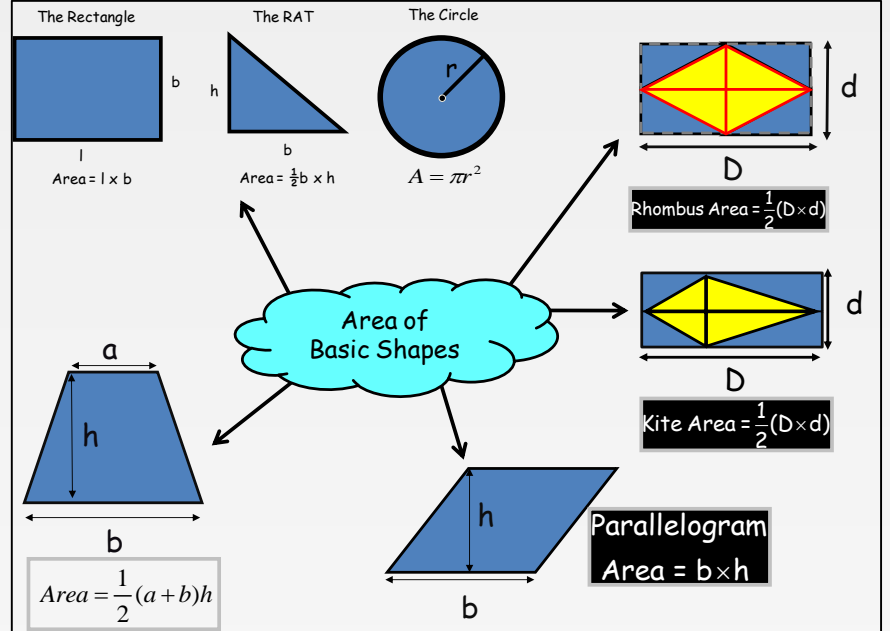


Gradient



Area of Basic Shapes

Pythagoras Theorem

Two key points when dealing with right-angled triangles
The longest side in a right-angled triangle is called The HYPOTENUSE
The HYPOTENUSE is ALWAYS opposite the right angle
 $c^2 = a^2 + b^2$
 $(xz)^2 = (xy)^2 + (yz)^2$

The cost for hiring a carpet cleaner is £30 plus £3 a day
How much will it cost to hire for a week.
 $C = 30 + 3d$
For $d = 7$
 $C = 30 + 3 \times 7 = \text{£}51$

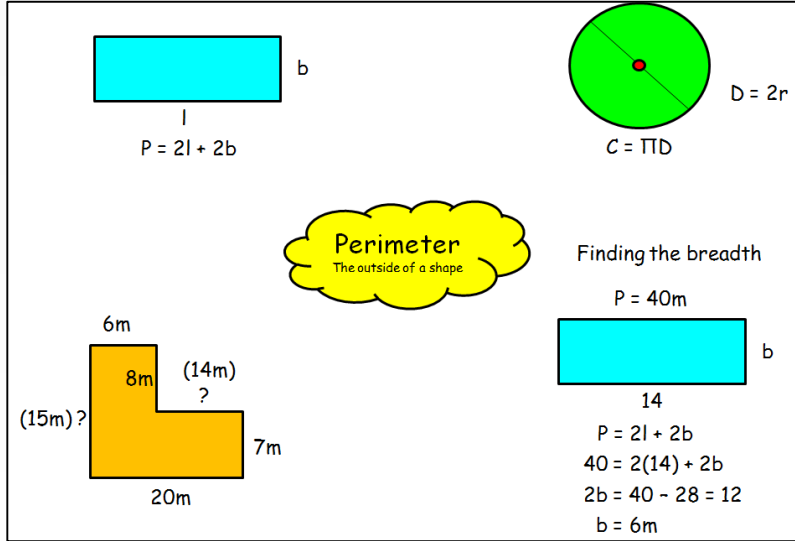
Formulae

Mathematics N4 Lifeskills Geometry & Measure

Using Timetables

Kirkie Bus Station*	0825	0925	1025		2025	2125	2225
Bishopbriggs	0837	0937	1037	And	2037	2137	2237
Milton	0843	0943	1043	Every	2043	2143	2243
Springburn	0848	0948	1048	Hour	2048	2148	2248
Port Dundas	0854	0954	1054	Until	2054	2154	2254
George Square	0902	1002	1102		2102	2202	2302
Glasgow Bus Station*	0914	1014	1114		2114	2214	2314

How long does the first bus take from Kirkie to Glasgow.
nearest hour: 08 25 (35 mins)
hours: 09 00 (0 hrs)
What's left: 09 00 (14 mins)
09 14 (14 mins)
Total: 49 mins



Perimeter

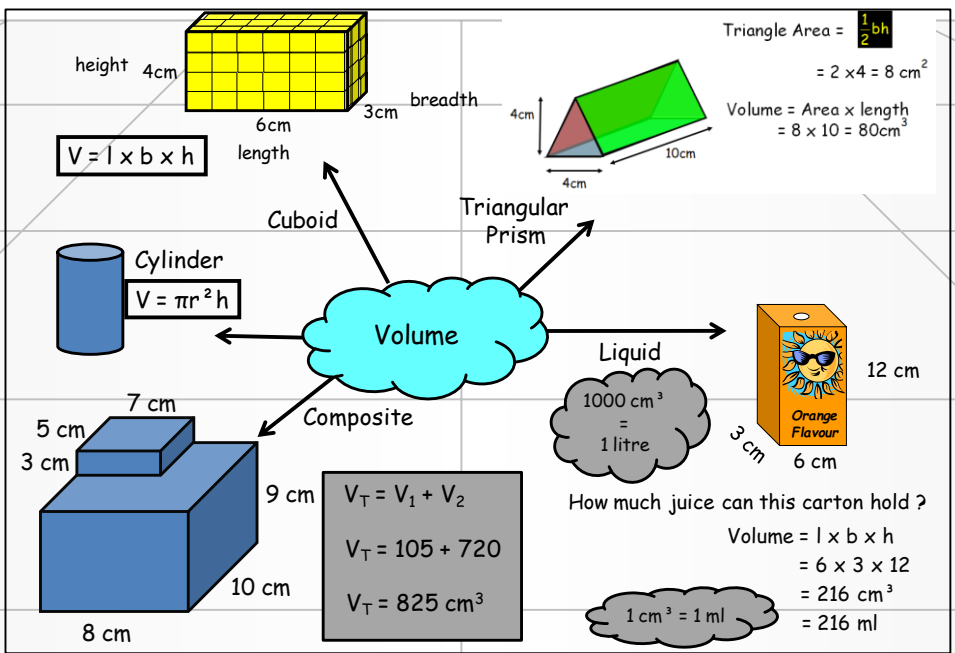
Scale Drawing

Scale Drawings

Solution Using a scale of $1cm = 2m$

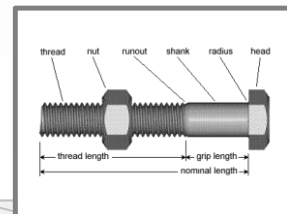
Step 1: Draw line $XY=3cm$
Step 2: Draw a line straight up from Y.
Step 3: Measure angle 55° from X.
Step 4: Draw line from X to vertical line and mark T at crossover point.
Step 5: Measure length YT. $4.3cm$
Step 6: Multiply length YT by scale factor.
 $2 \times 4.3 = 8.6cm$

Volume



Timetables

Tolerance



Tolerance is written as $(50 \pm 2)mm$

He might be prepared to accept any bolt as long as it lies between 48mm and 52mm
This means he will accept a bolt which is within 2mm of the 50mm he asked for.
This is referred to as the TOLERANCE for the measurement.