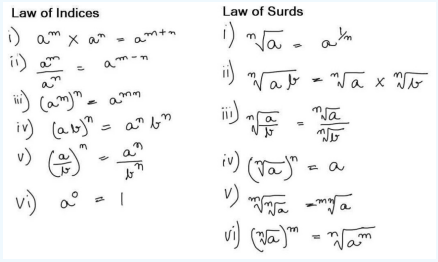
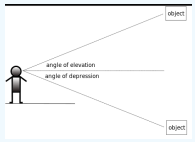
Year 9 Maths Exam cheat sheet Cheat Sheet

by Dragoneye34 via cheatography.com/32301/cs/9928/

Laws of indices and surds



Angles of elevation and depression



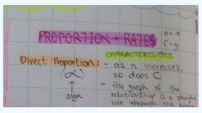
Probability

Experimental probability	= The frequency of the outcome / total number of trials
Relative frequancy	frequency of the outcome / total number of trials

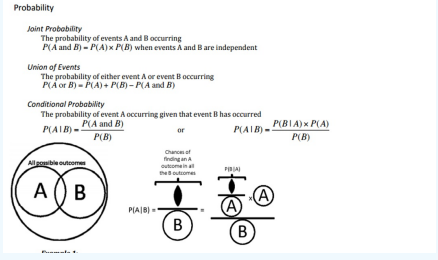
Financial maths

Dividing annual salary	Weekly = 52 | Fortnightly = 26 | Monthly = 12
Calculating percentage of $	0.% * $ | EG. 12% of 150 = 0.12 X 150

Proportional and rates

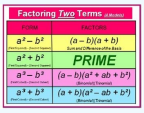


Extra probablity



Algebra

Factorising



Linear and Non-linear graphs

Gradient	Gradient = M | M=Rise divided by run
Gradient through two points	M = y2 - y1 / x2 - x1
Gradient intercept method	Y=mx + c | Find gradient + x and y intercept
x and y intercept method	To solve X, Y = 0 | To solve Y, X = 0, Then plot the x and y intercepts
Intercepts	Y = C | X = A

Statistics

$$\text{Mean} = \frac{\text{sum of all values}}{\text{total number of values}}$$

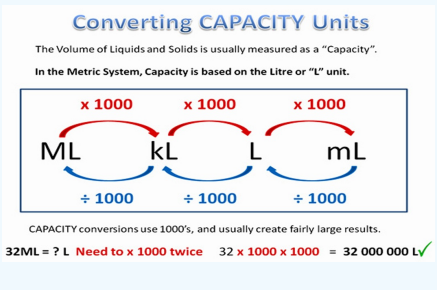
$$\text{Median} = \text{middle value (when the data are arranged in order)}$$

$$\text{Mode} = \text{most common value}$$

Measurement

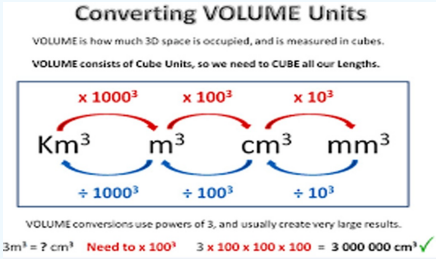
TSA	Area of all sides added up
Volume	Area X Height
SA of cylinder	SA = 2πr² + 2πrh
SA of sphere and volume	A=4πr² | V=4/3πr³ (volume)
TSA of Cone	πrl+πr²

Capacity

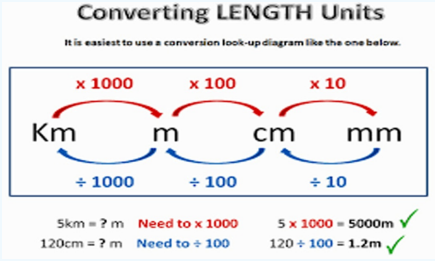


Area

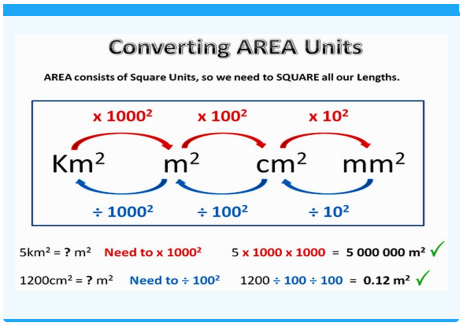
Volume



Length



Coeffi-cient	The number in front | 5y, y's coefficient is 5
Terms	A term is separated by a + or - sign | 5x-3y+2 there are 3 terms there
Constant	Constant is the single number which doesn't have any letters behind it



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