Cheatography

Year 9 Maths Exam cheat sheet Cheat Sheet by Dragoneye34 via cheatography.com/32301/cs/9928/

Laws of indices and surds	
Law of Indices (i) $a^{m} \times a^{n} = a^{m+n}$ (ii) $a^{m} = a^{m-n}$ (iii) $(a^{m})^{m} = a^{m}$ (iv) $(a b^{n})^{m} = a^{n} b^{m}$ (iv) $(a b^{n})^{m} = a^{m}$ (iv) $(a b^{n})^{m} = \frac{a^{m}}{b^{m}}$ (iv) $(a^{n})^{m} = \frac{a^{m}}{b^{m}}$ (iv) $a^{n} = a^{m}$	Law of Surds \vec{i}) $m\sqrt{\alpha} = \alpha^{1/m}$ \vec{i}) $m\sqrt{\alpha} = \alpha^{1/m}$ \vec{i}) $m\sqrt{\alpha} = m\sqrt{\alpha} \times m\sqrt{\omega}$ \vec{i}) $\sqrt{\alpha} = m\sqrt{\alpha}$ \vec{i} \vec{i}) $\sqrt{\alpha} = m\sqrt{\alpha}$ \vec{i} \vec{i}) $(\sqrt{\alpha})^{m} = \alpha$ \vec{v}) $\sqrt{\pi\sqrt{n}} = m\sqrt{\alpha}$ \vec{v}

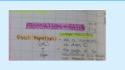
Angles of elevation and depression



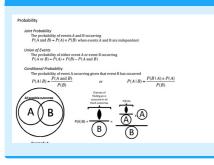
Probability	
Experimental probability	= The frequency of the outcome / total number of trials
Relative frequancy	frequency of the outcome / total number of trials

Financial maths	
0	Weekly = 52 Fortnightly = 26 Monthly = 12
0	0.% * \$ EG. 12% of 150 = 0.12 X 150

Proportional and rates



Extra probablity





Algebra	
Coefficie nt	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

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	$Y=C\midX=A$	

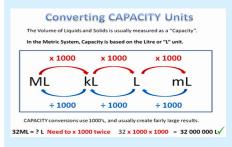
Sta	tistics		
	Mean	=	sum of all values total number of values
	Median	=	middle value (when the data are arranged in order)
	Mode	=	most common value
Mea	asurement		

TSA	Area of all sides added up
Volume	Area X Height
SA of cylinder	$SA = 2\pi r^2 + 2\pi rh$

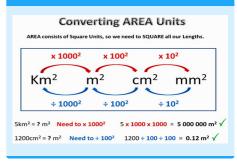
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Measurement (cont)	
SA of sphere and volume	A=4πr² V=4/3πr³ (volume)
TSA of Cone	πrl+πr²

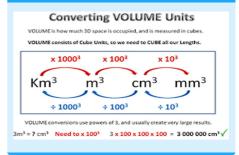
Capacity



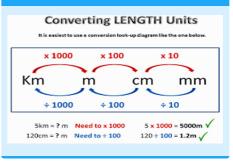
Area



Volume



Length



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