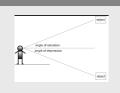
Cheatography

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

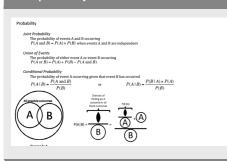
Financial maths

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

Proportional and rates



Extra probablity



By Dragoneye34

cheatography.com/dragoneye34/

Coefficie The number in front | 5y, y's nt 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

Factoring <u>Two</u> Terms RECORD	
FORM	FACTORS
a2 - b2	(a - b)(a + b)
a2 + b2	PRIME
93- b3	(a - b)(a² + ab + b²)
93+ b3	(a + b)(a² - ab + b²)

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

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

Measurement

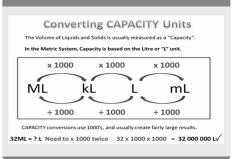
TSA	Area of all sides added up
Volume	Area X Height
SA of cylinder	$SA = 2\pi r^2 + 2\pi rh$

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Measurement (cont)

SA of sphere and	$A=4\pi r^2 \mid V=4/3\pi r^3$
volume	(volume)
TSA of Cone	πrl+πr²

Capacity



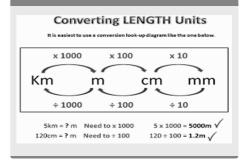
Area

 $5 \text{km}^2 = ? \text{ m}^2 \quad \text{Need to} \times 1000^2 \qquad 5 \times 1000 \times 1000 = 5 000 000 \text{ m}^2 \sqrt{1200 \text{cm}^2} = ? \text{ m}^2 \quad \text{Need to} \div 100^2 \qquad 1200 \div 100 \div 100 = 0.12 \text{ m}^2 \sqrt{1200 \text{ m}^2} = 1200 \div 100 \div 100 = 0.12 \text{ m}^2 \sqrt{1200 \text{ m}^2} = 1200 \times 1000 = 0.12 \text{ m}^2 = 0.$

Volume

VOLUME conversions use powers of 3, and usually create very large results. $3m^3 = ? cm^3$ Need to $\times 100^3$ $3 \times 100 \times 100 \times 100 = 3000 000 cm³ <math>\sqrt{}$

Length



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