UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND



PASSPORT

TO A MATHS GRADE B



Торіс	Video	Practise	
Mean from a Grouped Table To be able to calculate the mean from a grouped frequency table. <u>Exam Question</u> a) Calculate the mediar foot Length. b) Calculate the mean foot length.	Foot Length (cm) Fu $5 < l \leq 10$ 10 $10 < l \leq 15$ 15 $15 < l \leq 20$ 1	http://goo.gl/BR5q2B requency 5 17 8	
Simultaneous Equations To be able to solve simultaneous equations by the elimination method. $\frac{Exam Question}{a) 3x + 4y = 26}$ Solv 8x - 3y = 3	http://goo.gl/WWdyxq re the equations for both b) $5x - 2y$ 3x - 5y	http://goo.gl/pHqinW x and y . = 36 y = 33	www.missbsresources.com
Cumulative FrequencyTo be able to plot a cumulative frequency graph.Exam QuestionDraw a Height (cm)Praw a 0 < $h \le 10$ 10 < $h \le 10$ 10 < $h \le 20$ 20 < $h \le 30$ 30 < $h \le 40$	http://goo.gl/9uM8IG cumulative frequency graph aency 7 8 6 9	http://goo.gl/96dwcZ for the height of the plants.	











Algebra B			
Find the midpoint of the following coordinates. (-4,6,10) (10,-8,6)	Solve the following inequality $4 \le 2x + 8 < 12$		
Use the quadratic formula to solve. $x^2 - 4x - 8 = 0$	Solve the following pair of simultaneous equations. 3x + 2y = 13 $5x - 4y = 18$		
Factorise the following expressions: a) $4x + 20$ b) $3y^2 + 12y$ c) $x^2 + 4y - 21$	The equation of a line is y = 2x + 5 Write the equation of a line that is: a) Parallel to $y = 2x + 5$ b) Perpendicular to y = 2x + 5		
Solve using trial and improvement to 1dp. $2x^2 - 3x = 47$	Change the subject to x. a) $3x + t = y$ b) $\frac{x}{p} - pr = z$		
	c) $t(x+r) = p$		

Number B

Evaluate the following: <i>a</i>) 4^{0} <i>b</i>) 5^{3} <i>c</i>) $64^{\frac{1}{2}}$ <i>d</i>) 3^{-7}	There is a 45% sale. How much did the doll originally cost? Was: Now: £16.12 Now: £16.12
You buy a new car for £2,500. Your car depreciates in value by 4% each year. How much is it worth after 7 years?	What is the maximum and minimum areas of this rectangle?
 Write the following as fractions. a) 0.33333333 b) 0.7676767676 c) 0.428428428428 	Simplify the following a) $\sqrt{24}$ b) $\sqrt{5} \times \sqrt{7}$ c) $(\sqrt{3} + 4)(\sqrt{3} - 2)$
It is activity day 15% of students stay in school, $\frac{7}{20}$ go shopping. What percentage of pupils go to the cinema? If there are 1,400 students how many went to the cinema?	Calculate the following: a) $3\frac{4}{5} - 2\frac{1}{4}$ b) $4\frac{1}{3} \times 5\frac{3}{4}$







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