iGetMaths Guided Revision Edexcel Higher Paper Non-Calculator



WE DO

YOU DO

	WE DO		
Write 72 as a product of its prime factors.		Write 40 as a product of its prime factors.	

Prove algebraically that the recurring decimal 0.78 can be written as $\frac{26}{33}$

Prove algebraically that the recurring decimal 0.681 can be written as $\frac{15}{22}$

The mean of eight numbers is 41.

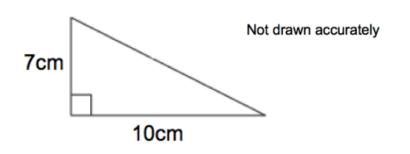
The mean of two of the numbers is 29.

Work out the mean of the other six numbers.

In class A there are 10 students and in class B there are 20 students.

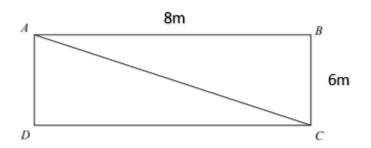
The mean mark for both classes is 40. The mean mark for class A is 20.

Work out the mean mark for class B.



Shown is a right-angled triangle.

Work out the perimeter of the triangle



The shape is made from 5 lines on a field. Work out the total length of all the lines.

YOU DO

Tina has two bags of counters, Bag A and Bag B.

There are 5 red counters and 3 blue counters in bag A. There are 4 red counters and 5 blue counters in bag B.

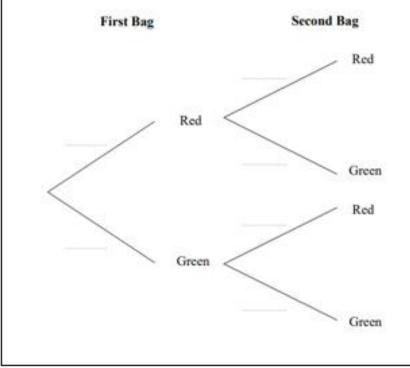
Tina takes at random a counter from each bag.

Work out the probability that Tina takes two blue counters.

In the first bag there are 4 red balls and 6 green balls. In the second bag there are 3 red balls and 5 green balls.

Rachel takes at random a ball from the first bag. She then takes at random a ball from the second bag.

Workout the probability Rachel takes one ball of each colour.



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n	1S	an	integer.

Prove algebraically that the sum of n(n + 1) and n + 1 is always a square number.

$$n$$
 is an integer.

Prove
$$(2n+1)(3n-2)-(6n-1)(n-2)$$
 is always even



 $\overset{.}{P}$ is inversely proportional to Q and when P=2, Q=2. Find the value of P when Q=8.

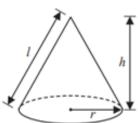
R is inversely proportional to the square root of S and when R=1, S=36.

Find the value of R when S = 9.

A cone has a radius of 5.3cm and a height of 9.8 cm. Work out an estimate for the volume of the cone.

Volume of cone =
$$\frac{1}{3}\pi r^2 h$$

Curved surface area of cone = πrl



A cone has a volume of 595 cm. The radius of the cone is 9.8cm.

Volume of cone =
$$\frac{1}{3}\pi r^2 h$$

Curved surface area of cone = πrl

Workout an estimate of the height of the cone.

