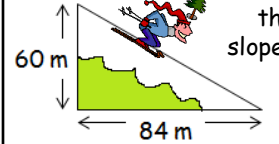


1 Solve the following equation...

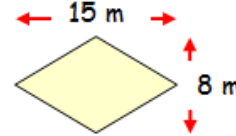
$$3x - 12 = 8 - 2x$$

7 Calculate the gradient of this slope...



6 Calculate $\sqrt{64 + (3 + 4)^2}$

5 Calculate the area of this rhombus...



4 Jay cycled 11.4 miles in 1 hr 12 mins.



What was his average speed?



3 Screws are manufactured that must have a tolerance of (20 ± 1.5) mm. What are the minimum and maximum lengths of screws that are acceptable?



2 This £40 shirt has 15% off in the January sales. How much does it now cost?



13 Carrie scored 68 out of 110 in her maths test and 49 out of 85 in her english exam. Which subject did she perform better in? Give a reason for your answer!



12 Calculate the interior and exterior angles of this regular hexagon...



11 Multiply out the following brackets and simplify...

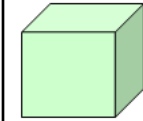
$$7(x + 3) - 2(3x - 5)$$

10 Calculate 205×317

9 Calculate $3\frac{3}{5} + 4\frac{1}{2}$

8 Calculate the median of the following data set...
5, -2, 7, -8, 3

19 Calculate the surface area of this cube...



11 cm

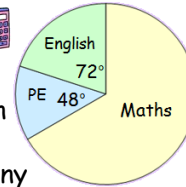


18	inch	2.54 cm
	foot	30.48 cm

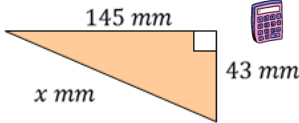
A basketball player is 6 ft 9 in tall. How tall is he in metres?



17 420 children asked. How many preferred maths?



16 Calculate the length of the missing side. Round your answer to 1 d.p.



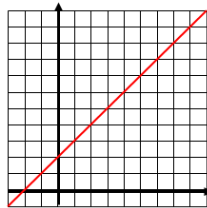
15 Factorise the following expression...
 $10k - 45$



21 It takes 2 men 9 hours to dig a hole. How long will it take 6 men at this rate?

24 Find the 'nth' term for the following sequence and hence find the 10th term;
11, 6, 1, ...

25 Write the equation of the straight line



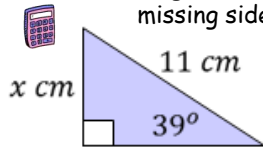
23 How many 150 ml cups of water can be filled from a 4 litre water container?



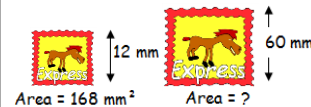
22 Allan weighed 83 kg. As part of his new year's resolution he lost 0.32 kg followed by a further 1.098 kg. What does he now weigh?



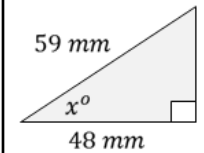
20 Calculate the length of the missing side...



30 The following stamps are mathematically similar. Calculate the missing area...



31 Calculate the size of the missing angle...



29 Calculate $1196 \div 23$

28 Last year, Bill's income was £23 800. This year his income increased to £25 942. Calculate this increase as a percentage of last year's income.

27 5 babies at a toddlers group have a mean age of 9 months. The ages of the first 4 babies were 5, 7, 10 and 12 months. What was the age of the fifth baby?



26 Calculate the area of this shape...

