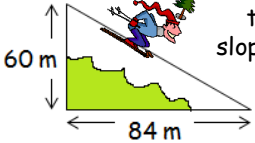




4 take-away coffees cost £9.80. How much for 7 take-away coffees?



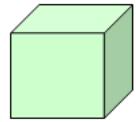
Calculate the gradient of this slope...



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!



Calculate the surface area of this cube...



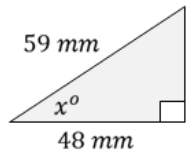
11 cm



Simplify the following expression...

$$7a + 2b + 3a - 6b$$

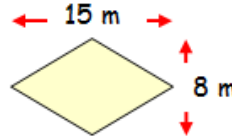
Calculate the size of the missing angle...



Solve the following equation...

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

Calculate the area of this rhombus...

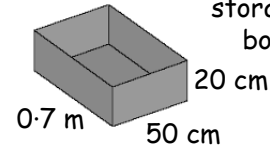


If $x = 3$ and $y = -2$ calculate :-
 $4x^2 - 5y$

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?



Calculate the volume of this storage box...



Multiply out the following brackets and simplify...

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

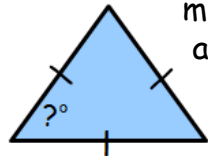
Jay cycled 11.4 miles in 1 hr 12 mins.



What was his average speed?



Calculate the missing angle...



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



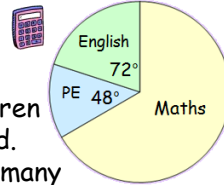
Calculate the median of the following data set...

5, -2, 7, -8, 3

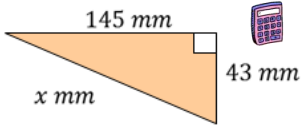
Factorise the following expression...

$$10k - 45$$

420 children asked. How many preferred maths?



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



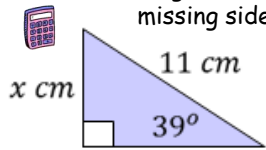
In a survey of 56 people, $\frac{7}{8}$'s of them were found to be right-handed. How many of them were right handed?



A standard pack of playing cards has 52 cards. What is the probability of choosing a queen at random?



Calculate the length of the missing side...



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



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



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?



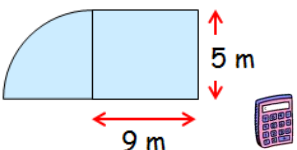
Exchange Rate:-
£1 = €1.15



How many euros would I receive for £600?



Calculate the area of this shape...



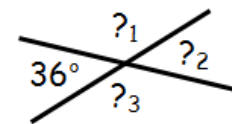
The velocity, v metres per second, at the top of a loop in a roller coaster is given by the formula $v = \sqrt{gr}$ where r metres is the radius of the loop. Calculate the value of v when $g = 8.1$ and $r = 10$.



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.



Calculate the missing angles...



Write a rule and complete the table...

no. of rings (R)	1	2	3	19	?
diamonds (D)	5	8	11	?	101