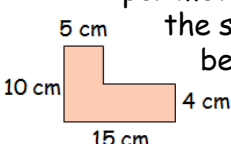
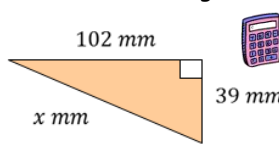






1 Simplify the following expression...  
 $n^2 - 2n - 8n^2 + 5n$


2 Factorise the following expression...  
 $12x - 54$

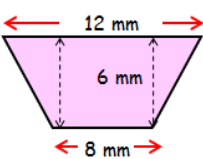
3 Calculate the perimeter of the shape below...  




4 Calculate the length of the missing side...  



5 Decrease \$18 by 25%  


6  Simon scored 63 out of 88 in his end of year exam. Calculate his percentage, rounding your answer to the nearest percent.  


7 A family bought a 4 litre bottle of milk. One morning, the family used 1.269 litres of milk. How much do they have left?  



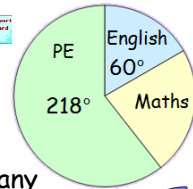
8 Calculate the area of this trapezium...  


9  Peppers are sold in packs of 6. How many packs can be made from 465 peppers?  


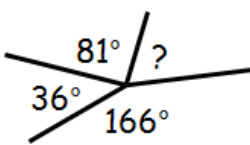
10 There are 52 cards in a pack. What is the probability of choosing a queen?  



11 Solve the following equation...  
 $4x - 1 = 2x + 6$

12 Calculate  $\frac{3}{8}$  of 1136

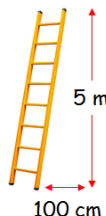
13  720 pupils asked. How many preferred maths?  


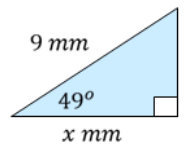
14 Multiply out the following brackets and gather like terms...  
 $5(2x - 1) + 3(4 - x)$

15 Calculate the missing angle...  


16 6 ketchup bottles cost £5.34. How much do 10 ketchup bottles cost?  


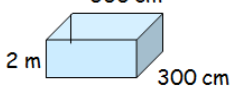
17 Calculate  $-7 + (-3)$

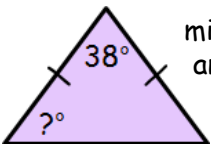
18 Calculate the gradient of this step ladder.  


19 Calculate the length of the missing side...  


20 If  $c = 5$  and  $d = -2$  calculate :-  
 $3c + d^2$

21 Calculate 85% of €60

22 Calculate the capacity of this water tank in litres.  


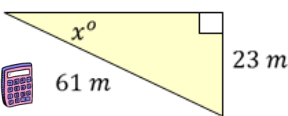
23 Calculate the missing angle...  



24 Write 72% as a fraction and a decimal.

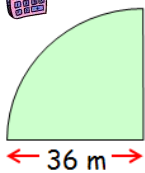
25 Write a rule and complete the table...



no. of panels (P)	2	3	4	33	?
shelves (S)	4	7	10	?	145

26 Sophie sees the same pair of sun glasses for sale at 2 different prices. £8.95 at the airport and €9.95 on holiday. Which price is the best deal?  
 Exchange rate: £1 = €1.15.

27 Calculate the size of the missing angle...  


28 How long did a plane take to fly 2430 kilometres to Rome at an average speed of 600 km/hr.?  


29 Calculate the perimeter of this shape...  


30 The weather forecast predicts a 11 in 60 chance of sun. It also predicts a 23 in 120 chance of rain.  
   
 According to the weather forecast, is it more likely to be sunny or rainy? You must give a reason your answer.