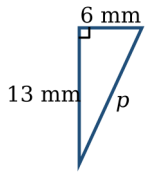
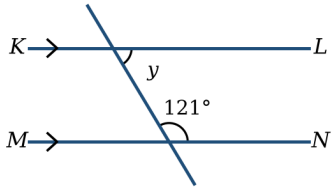
Day 67	B Tier 10-a-day
1 Find the length of p. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately.  	
2 $g(x) = 4x^2 + 6$ (a) Work out g(3) (b) Work out g(−3)	
3 $A = 2^3 \times 5^3$ $B = 2 \times 3^3 \times 7$ Write down, as a product of prime factors, (a) the HCF of A and B (b) the LCM of A and B	
4 B is south-west of A. (a) Write down the bearing of B from A. (b) Work out the bearing of A from B.	
5 A rectangle has length (5x + 3) cm and width (2x + 6) cm. Write down an expression, in terms of x, for the perimeter of the rectangle. Give your answer in its simplest form.	

Day 67 **B Tier 10-a-day**

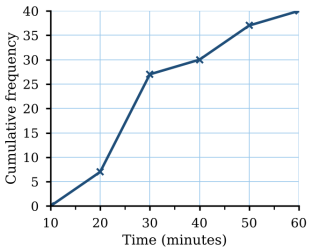
6 In the diagram, KL is parallel to MN.
(a) Work out the size of angle y.
(b) Give a reason for your answer.
The diagram is not drawn accurately.



7 A cyclist travels at 50 km/h for 1.5 hours and then at 60 km/h for 1 hour.
Work out its average speed for the whole journey.

8 The number x is rounded to the nearest 10.
The result is 410.
Write down the error interval for x.

9 The cumulative frequency graph shows the times taken by 40 students to complete a puzzle.
(a) Use the graph to estimate the median.
(b) Work out an estimate for the interquartile range.



10 32 viewers were asked.
21 of them watch drama and 16 of them watch comedy.
10 of them did both.
(a) How many did neither?
(b) One is chosen at random. Find the probability that they watch drama but do not watch comedy.