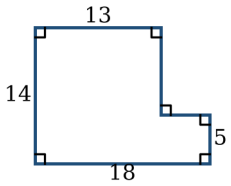
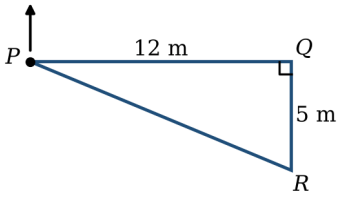
Day 106	B Tier 10-a-day
1 Chloe buys 2 sandwiches at 55p each and 4 notebooks at £1.95 each. She pays with a £20 note. Work out how much change she gets.	
2 A bag contains 3 black pens and 4 blue pens. One is taken at random. Find the probability that it is not black.	
3 The diagram shows the shape of a garden. All the corners are right angles. All lengths are in m. (a) Find the perimeter. (b) Find the area. 	
4 Work out $2\frac{1}{2} + 2\frac{5}{8}$ Give your answer as a mixed number.	
5 (a) The point P(5, −6) is enlarged with scale factor 3 and centre the origin. Write down the coordinates of the image. (b) The point P(5, −6) is reflected in the line y = x. Write down the coordinates of the image.	

Day 106	B Tier 10-a-day
6 Write each number as an ordinary number. (a) 9×10^4 (b) 5.8×10^{-3}	
7 8 machines take 3 hours to make a batch of parts. All the machines work at the same rate. How long would it take 6 machines?	
8 Solve $x^2 - 10x + 21 = 0$	
9 A boat sails 12 m on a bearing of 090° from P to Q, then 5 m on a bearing of 180° to R. (Calculator) (a) Work out the distance PR. (b) Work out the bearing of R from P. Give your answers correct to 1 decimal place. 	
10 Here is a number machine. Input → × 6 → + 10 → Output (a) The input is 4. Work out the output. (b) The output is 28. Work out the input.	