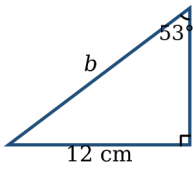
Day 87	B Tier 10-a-day
1 Here are the first four terms of a sequence. 4, 7, 12, 19 (a) Write down the next two terms. (b) Describe the rule for continuing the sequence.	
2 (a) The point P(5, 1) is enlarged with scale factor −2 and centre the origin. Write down the coordinates of the image. (b) The point P(5, 1) is rotated 180° about the origin. Write down the coordinates of the image.	
3 Work out (a) −6 − (−8) (b) (−8) × 7	
4 Here are the number of books read by some students. 27, 42, 44, 21, 23, 45, 24 (a) Find the median. (b) Work out the range.	
5 Solve $5n - 6 > -1$	

Day 87	B Tier 10-a-day
6 Calculate the length of b. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
7 30 fish in a lake are caught, tagged and returned to the lake. Later, a sample of 60 fish is caught and 2 of them are tagged. Estimate the total number of fish in the lake.	
8 Factorise $25x^2 - 121$	
9 A square-based pyramid has base side 8 cm and vertical height 15 cm. Volume of a pyramid = $\frac{1}{3}$ × base area × height Work out the volume of the pyramid.	
10 In a sale, the price of a sofa is reduced by 40%. (Calculator) Two weeks later it is reduced by a further 5% of the new price. The final price is £57. Work out the original price of the sofa.	