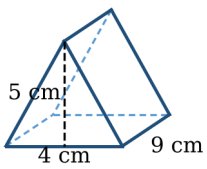
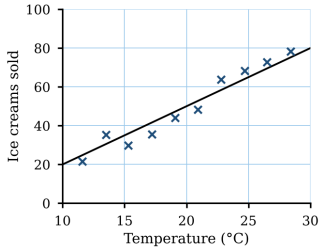
Day 137	B Tier 10-a-day
1 The angles in a triangle are x°, 3x° and (x + 15)°. (a) Work out the value of x. (b) Work out the size of the largest angle.	
2 Does the point (3, −5) lie on the line $y = -2x + 1$? You must show your working.	
3 Work out (a) 80% of £400 (b) 10% of 500	
4 A new car is worth £15,000. (Calculator) Each year its value falls by 20% of its value at the start of that year. Work out the value of the car after 2 years.	
5 Here is a prism. Its cross-section is an isosceles triangle. Work out the volume of the prism. The diagram is not drawn accurately. 	

Day 137	B Tier 10-a-day
6 Work out $(6.2 \times 10^4) + (4.7 \times 10^4)$ Give your answer in standard form.	
7 20 birds in a lake are caught, tagged and returned to the lake. Later, a sample of 80 birds is caught and 2 of them are tagged. Estimate the total number of birds in the lake.	
8 Will bought a guitar for £250 and sold it for £325. Work out the percentage profit.	
9 The scatter graph shows information about temperature and ice creams sold. A line of best fit is drawn. (a) Describe the correlation. (b) Use the line of best fit to estimate the ice creams sold when temperature is 24.  	
10 The equation $x^3 - x = 113$ has a solution between 4 and 5. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	