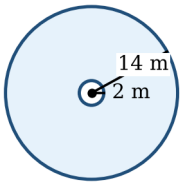
Day 34	B Tier 10-a-day
1 A regular decagon has 10 sides. (a) Work out the size of one exterior angle. (b) Work out the size of one interior angle.	
2 The stem and leaf diagram shows 13 values. (a) Find the median. (b) Work out the range. **Stem** **Leaf** 1 | 0 1 6 2 | 1 2 3 6 3 | 0 1 4 7 8 9 Key: 1 | 0 means 10	
3 Line L has equation y = 5x + 3 Line M is parallel to line L and passes through the point (2, 8). Find the equation of line M.	
4 y is directly proportional to x. When x = 10, y = 40. Find the value of y when x = 5.	
5 A cube has side length 6 cm. Work out the total surface area of the cube.	

Day 34	B Tier 10-a-day
6 A spacecraft travels at 3×10^4 km per hour. It travels for 4.6×10^4 hours at this speed. Work out how far it travels. Give your answer in standard form.	
7 The diagram shows two circles with the same centre. The radius of the larger circle is 14 m. The radius of the smaller circle is 2 m. Work out the area of the shaded region. Give your answer in terms of π. The diagram is not drawn accurately. 	
8 Solve the simultaneous equations $3x - 2y = -7$ $x + y = 1$	
9 The price of a meal including VAT at 20% is £180. (Calculator) Work out the price of the meal before VAT was added.	
10 The length of a rectangle is 27 cm and its width is 15 cm. Both measurements are correct to the nearest cm. Work out the upper bound for the perimeter of the rectangle.	