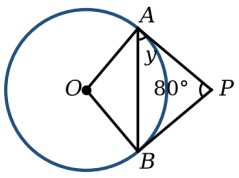
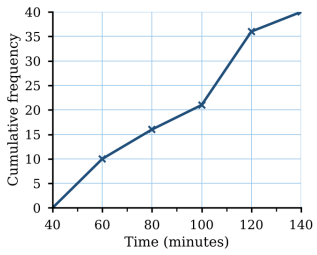
Day 163	B Tier 10-a-day
1 Work out the value of 6m + 14 when m = 4	
2 A rectangular poster measures 23 cm by 14 cm. A rectangle measuring 11 cm by 2 cm is cut out. Work out the area that is left.	
3 I think of a number. I add 5 and then multiply the result by 6. The answer is 72. Work out my number.	
4 The probability that it rains on Saturday is 0.4. The probability that it rains on Sunday is 0.3. The events are independent. Work out the probability that it rains on both days.	
5 PA and PB are tangents to a circle, centre O. Angle APB = 80°. Work out the size of angle PAB, marked y. Give a reason for your answer. The diagram is not drawn accurately. 	

Day 163	B Tier 10-a-day
6 (a) Write $\frac{12}{25}$ as a decimal. (b) Write $\frac{1}{6}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
7 Triangle ABC is isosceles with AB = AC = 5 m. The base BC = 6 m. (a) Work out the perpendicular height of the triangle. (b) Work out the area of the triangle.	
8 The length of a rectangle is 14 cm and its width is 19 cm. Both measurements are correct to the nearest cm. Work out the upper bound for the perimeter of the rectangle.	
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 A lump of gold has a density of 19.3 g/cm^3 and a mass of 3860 g. Work out its volume.	