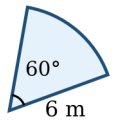
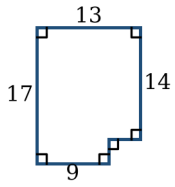
Day 179	B Tier 10-a-day
1 The diagram shows a sector of a circle with radius 6 m and angle 60°. Work out the length of the arc of the sector. Give your answer in terms of π. The diagram is not drawn accurately. 	
2 Here is a formula. v = u + at Work out the value of v when u = 8, a = 2 and t = 5	
3 The diagram shows the shape of a garden. All the corners are right angles. All lengths are in cm. (a) Calculate the perimeter. (b) Calculate the area. 	
4 Expand and simplify $(2x - 3)(x + 7)$	
5 Here are the number of goals scored by a team in each match. 5, 0, 2, 3 Work out the mean.	

Day 179	B Tier 10-a-day
6 Nina bought a bike for £800 and sold it for £320. Work out the percentage loss.	
7 A tin has radius 9 cm and height 8 cm. (Calculator) It is closed. Work out the total outside surface area. Give your answer correct to 1 decimal place.	
8 In a test, the mean mark of 9 boys is 41. The mean mark of 6 girls is 71. Work out the mean mark of all 15 students.	
9 The length of a rectangle is 32 cm and its width is 30 cm. Both measurements are correct to the nearest cm. Work out the lower bound for the area of the rectangle.	
10 Hannah's rent goes up by 30%. (Calculator) The new rent is £26 a month. Work out the rent before the increase.	