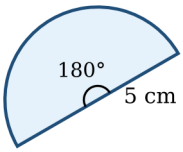
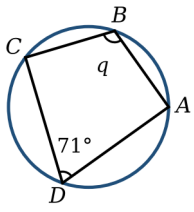
Day 225	B Tier 10-a-day
1 Electricity costs 30p per unit. There is also a standing charge of £8. Work out the total bill for 350 units.	
2 A jug holds 3.6 litres of juice. Each glass holds 300 ml. How many glasses can be filled from the jug?	
3 The diagram shows a sector of a circle with radius 5 cm and angle 180°. (Calculator) Work out the length of the arc of the sector. Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
4 Work out the gradient of the straight line that passes through the points (3, −5) and (6, −11).	
5 Write each number in standard form. (a) 460,000 (b) 0.0000093	

Day 225	B Tier 10-a-day
6 Factorise $x^2 - 9x + 18$	
7 The ratio of cats to dogs among the pets at a rescue centre is 8 : 7. There are 64 cats. How many dogs are there?	
8 Expand and simplify $2(x + 1) + 5(x - 3)$	
9 A, B, C and D are points on a circle. Angle ADC = 71°. Work out the size of angle ABC, marked q. Give a reason for your answer. The diagram is not drawn accurately. 	
10 Triangle PQR is isosceles with PQ = PR = 13 m. The base QR = 24 m. (a) Work out the perpendicular height of the triangle. (b) Work out the area of the triangle.	