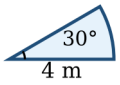
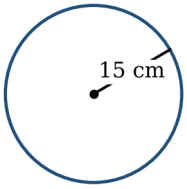
Day 334	B Tier 10-a-day
1 The diagram shows a sector of a circle with radius 4 m and angle 30°. (Calculator) Work out the area of the sector. Give your answer correct to 1 decimal place. The diagram is not drawn accurately.  	
2 Work out the value of $9n - 8$ when $n = 2$	
3 Here is a list of numbers. 61, 86, 47, 98, 62, 53, 5, 97 From the list, write down (a) a factor of 60 (b) a multiple of 7	
4 The diagram shows a circle with radius 15 cm. (Calculator) Work out the area of the circle. Give your answer correct to 1 decimal place. The diagram is not drawn accurately.  	
5 Solve $6(2x + 8) = 24$	

Day 334 **B Tier 10-a-day**

6 The ratio of adults to children at a concert is 7 : 2.
What fraction of them are children?

7 There are 5.1×10^3 bacteria in a dish.
The number doubles every day.
How many are there after 4 days?
Give your answer in standard form.

8 A bag contains 4 black socks and 2 white socks.
Amy takes one at random and does not replace it, then takes a second.
Work out the probability that the two are the same colour.

9 A and B are two points 10 cm apart.
A point P is always the same distance from A and from B.
Describe the locus of the point P.

10 Complete the table of values for $y = x^2 + 2x + 3$

x	−2	−1	0	1	2	3
y			3		11	