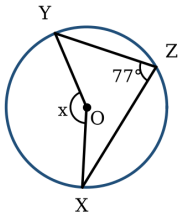
Day 25	A Tier 10-a-day
1 The area of a circle is 49π cm^2. (a) Work out the radius of the circle. (b) Work out the circumference. Give your answer in terms of π.	
2 Jack's salary increases by 40%. (Calculator) Her new salary is £49. Work out her salary before the increase.	
3 The ratio of boys to girls in a youth club is 1 : 3. There are 28 more girls than boys. Work out the total number of boys and girls.	
4 Here are the first four terms of a geometric sequence. 32, 16, 8, 4 (a) Write down the next two terms. (b) Work out the 8th term.	
5 Change 350000 cm^2 to m^2.	

Day 25	A Tier 10-a-day
6 X, Y and Z are points on a circle with centre O. Angle XZY = 77°. Work out the size of angle x. Give a reason for your answer.  	
7 $x_{n+1} = \sqrt{2x_n + 3}$ $x_0 = 4$ Work out the values of x_1, x_2 and x_3. Give your answers correct to 3 decimal places. (Calculator)	
8 Solve $2^x = \frac{1}{2}$	
9 The value of a car falls by 20% each year. (Calculator) After 3 years it is worth £1,792. Work out its value at the start.	
10 A bag contains 4 black pens and 3 blue pens. Three pens are taken at random without replacement. Work out the probability that all three pens are black.	