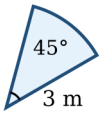
Day 330	B Tier 10-a-day
1 Write the ratio 25 : 40 : 30 in its simplest form.	
2 The nth term of a sequence is 4n + 1 (a) Work out the 9th term. (b) Is 121 a term in the sequence? You must show how you get your answer.	
3 Write 264 as a product of its prime factors. Give your answer in index form.	
4 A spinner has coloured sections. It is spun 400 times and lands on green 300 times. What is the relative frequency of green? Give your answer as a decimal.	
5 (a) Change 2.3 kg to g. (b) Change 1295 mm to m.	

Day 330	B Tier 10-a-day
6 Make n the subject of the formula C = 5n + 7	
7 The diagram shows a sector of a circle with radius 3 m and angle 45°. (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.  	
8 A paddling pool is $\frac{1}{8}$ full. 30 litres of water are added. The paddling pool is now $\frac{1}{5}$ full. Work out the capacity of the paddling pool.	
9 A prism has a cross-section with area 30 m^2. The length of the prism is 13 m. Work out the volume of the prism.	
10 Solve the simultaneous equations 4x − 4y = 28 5x + 2y = 14	