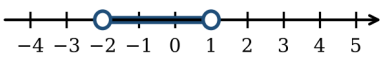
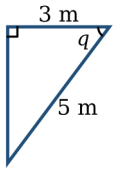
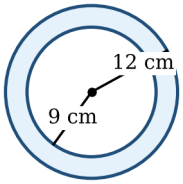
Day 136	B Tier 10-a-day
1 Leo, Jack and Ben share 54 stamps in the ratio 2 : 5 : 2. Work out how many Ben gets.	
2 (a) Write down the inequality shown on the number line. (b) Write down all the integers that satisfy the inequality. 	
3 Calculate the size of angle q. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
4 Write 100 as a product of its prime factors. Give your answer in index form.	
5 A bus travels at 72 km/h. Work out its speed in metres per second.	

Day 136	B Tier 10-a-day
6 The diagram shows two circles with the same centre. The radius of the larger circle is 12 cm. The radius of the smaller circle is 9 cm. Work out the area of the shaded region. Give your answer in terms of π. The diagram is not drawn accurately.  	
7 34 adults were asked. 20 of them like tea and 17 of them like coffee. 9 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they like tea but do not like coffee.	
8 Solve $x^2 - 100 = 0$	
9 The price of a laptop is £80. The price is first increased by 20%, then the new price is increased by 30%. (a) Work out the final price. (b) Work out the overall percentage increase in the price.	
10 In a sale, the price of a sofa is reduced by 20%. (Calculator) Two weeks later it is reduced by a further 25% of the new price. The final price is £240. Work out the original price of the sofa.	