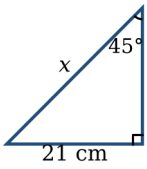
Day 59	B Tier 10-a-day
1 A pot contains 4 red counters and 5 blue counters. One is taken at random. Find the probability that it is not blue.	
2 Find the (a) highest common factor (HCF), (b) lowest common multiple (LCM) of 24 and 84.	
3 Expand (a) $4(5x + 2)$ (b) $x(x - 1)$	
4 Amir invests £800 for 5 years. The account pays 2.5% simple interest per year. (a) Work out the interest earned each year. (b) Work out the total amount in the account after 5 years.	
5 A tin of beans has radius 10 m and height 19 m. Work out its volume. Give your answer in terms of π.	

Day 59	B Tier 10-a-day
6 Does the point (1, −1) lie on the line $y = 5x - 4$? You must show your working.	
7 In a bag of counters, the ratio of green to black is 5 : 4. The ratio of black to blue is 7 : 8. Write down the ratio green : black : blue.	
8 Find the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
9 A cyclist travels at 60 km/h for 1 hour and then at 90 km/h for 1.5 hours. Work out its average speed for the whole journey.	
10 A field is 9 m long and 5 m wide. (Calculator) Work out the length of a diagonal of the field. Give your answer correct to 1 decimal place.	