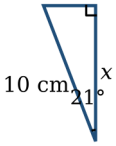
Day 176	B Tier 10-a-day
1 A road is 80 m long. It is drawn on a map with scale 1 : 1000. Work out the length of the road on the map, in cm.	
2 The nth term of a sequence is 2n + 1 (a) Work out the 12th term. (b) Is 38 a term in the sequence? You must show how you get your answer.	
3 Work out the size of one interior angle of a regular dodecagon.	
4 A coin is thrown 2 times. Each throw lands on heads or tails. How many different sequences of heads and tails are possible?	
5 Work out $3\frac{7}{8} + 1\frac{1}{6}$ Give your answer as a mixed number.	

Day 176	B Tier 10-a-day
6 Write the ratio 21 : 12 in its simplest form.	
7 Calculate the length of x. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately.  	
8 A boat travels 45 km at an average speed of 30 km/h. How long does the journey take? Give your answer in hours and minutes.	
9 A takeaway sells burgers and portions of chips. 1 burger and 2 portions of chips cost £11. 3 burgers and 2 portions of chips cost £25. Work out the cost of one burger and the cost of one portion of chips.	
10 In a sale, the price of a sofa is reduced by 50%. (Calculator) Two weeks later it is reduced by a further 10% of the new price. The final price is £225. Work out the original price of the sofa.	