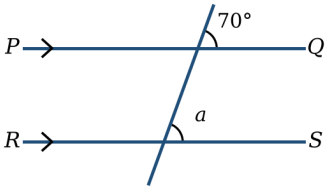
Day 218	B Tier 10-a-day
1 The ratio of adults to children among the people on a bus is 3 : 2. There are 18 adults. How many children are there?	
2 Each exterior angle of a regular polygon is 36°. Work out the number of sides of the polygon.	
3 Here is a formula. y = mx + c Work out the value of y when m = 2, x = 4 and c = 1	
4 In the diagram, PQ is parallel to RS. (a) Work out the size of angle a. (b) Give a reason for your answer. The diagram is not drawn accurately. 	
5 Two fair six-sided spinners are spun. Work out the probability that the product of the two scores is 12 or more.	

Day 218	B Tier 10-a-day
6 A church spire is 14 m tall. (Calculator) Mia stands 60 m from the base of the church spire on level ground. Work out the angle of elevation of the top of the church spire from Mia. Give your answer correct to 1 decimal place.	
7 (a) George scores 21 out of 40 in a test. Write this as a percentage. (b) Write £1.30 as a percentage of £10.	
8 Solve the simultaneous equations $3x + y = 12$ $5x - y = 4$	
9 There are 4.3×10^6 bacteria in a dish. The number doubles every day. How many are there after 4 days? Give your answer in standard form.	
10 The price of a meal including VAT at 20% is £600. (Calculator) Work out the price of the meal before VAT was added.	