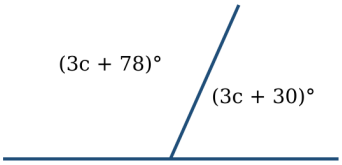
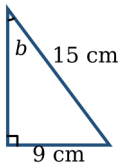
Day 331	B Tier 10-a-day
1 A tap fills a tank at a rate of 6 litres per minute. The tank holds 60 litres. How long does it take to fill the empty tank?	
2 The diagram shows 2 angles on a straight line. Work out the value of c. The diagram is not drawn accurately.  	
3 A triangle has sides of length x cm, (x + 3) cm and (2x − 1) cm. The perimeter of the triangle is 38 cm. (a) Work out the value of x. (b) Work out the length of the longest side.	
4 Use the fact that 47 × 17 = 799 to work out (a) 47 × 1.7 (b) 7.99 ÷ 47	
5 Write as a single fraction $\frac{x}{3} + \frac{x}{5}$	

Day 331	B Tier 10-a-day
6 Calculate the size of angle b. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
7 Work out $(21.5 \times 10^{10}) \div (5 \times 10^{5})$ Give your answer in standard form.	
8 22 pupils were asked. 10 of them study French and 13 of them study German. 5 of them did both. (a) How many did neither? (b) One is chosen at random. Find the probability that they study French but do not study German.	
9 Write these in order of size. Start with the smallest. 30%, $\frac{7}{8}$, 92.5%, $\frac{4}{5}$	
10 A boat sails 9 km on a bearing of 180° from P to Q, then 12 km on a bearing of 270° to R. (Calculator) (a) Work out the distance PR. (b) Work out the bearing of R from P. Give your answers correct to 1 decimal place. 