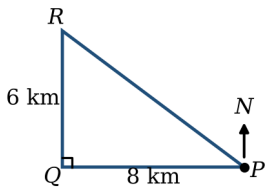
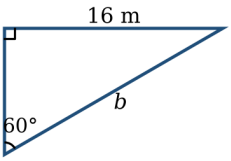
Day 290	B Tier 10-a-day
1 Here is a number machine. Input → × 3 → + 10 → Output (a) The input is 3. Work out the output. (b) The output is 22. Work out the input.	
2 Write 62.4639 (a) correct to 2 decimal places, (b) correct to 3 significant figures.	
3 The area of a circle is 336 cm^2. (Calculator) Work out the radius of the circle. Give your answer correct to 1 decimal place.	
4 Juice is sold in two sizes. Small: 500 ml for £1.40 Large: 1 litres for £3.30 Which size is better value for money? You must show your working.	
5 A boat sails 8 km on a bearing of 270° from P to Q, then 6 km on a bearing of 000° 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. 	

Day 290	B Tier 10-a-day
6 Femi and Maya share some money in the ratio 8 : 3. Femi gets £30 more than Maya. How much money does Maya get?	
7 (a) Write $\frac{3}{5}$ as a decimal. (b) Write $\frac{2}{3}$ as a recurring decimal. For part (b), write down the first 8 decimal places and say which digits repeat.	
8 Calculate the length of b. (Calculator) Give your answer correct to 1 decimal place. The diagram is not drawn accurately. 	
9 Make t the subject of the formula $s = \frac{d}{t}$	
10 Sam tests a biased coin landing on tails. In 200 trials it happens 48 times. Estimate how many times it will happen in 800 trials.	