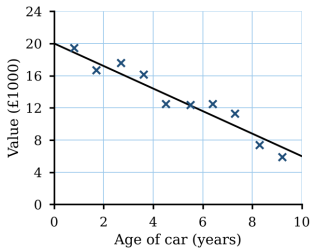
Day 89	B Tier 10-a-day
1 What is the order of rotational symmetry of an isosceles trapezium?	
2 Here are the first four terms of a sequence. 3, 7, 15, 27 (a) Write down the next two terms. (b) Describe the rule for continuing the sequence.	
3 The scale of a map is 1 : 50,000. Two towns are 6.5 cm apart on the map. Work out the real distance between the towns. Give your answer in kilometres.	
4 A rectangle has length (4x + 1) m and width (3x) m. The perimeter of the rectangle is 142 m. (a) Work out the value of x. (b) Work out the area of the rectangle.	
5 Work out (a) 0.6 ÷ 0.4 (b) 15 ÷ 0.5	

Day 89 **B Tier 10-a-day**

6 Write as a single fraction

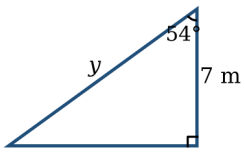
$\frac{x}{3} + \frac{x}{2}$

7 The scatter graph shows information about age of car and value.
A line of best fit is drawn.
(a) Describe the correlation.
(b) Use the line of best fit to estimate the value when age of car is 5.



8 The equation $x^3 - 2x = 9$ has a solution between 2 and 3. (Calculator)
Use trial and improvement to find this solution.
Give your answer correct to 1 decimal place.

9 Work out the length of y. (Calculator)
Give your answer correct to 1 decimal place.
The diagram is not drawn accurately.



10 (a) Write $\frac{1}{5}$ as a decimal.

(b) Write $\frac{6}{11}$ as a recurring decimal.

For part (b), write down the first 8 decimal places and say which digits repeat.