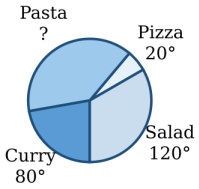
Day 52 **B Tier 10-a-day**

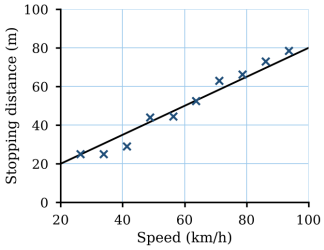
1 A rectangular lawn measures 16 m by 12 m.
A rectangle measuring 4 m by 6 m is cut out.
Work out the area that is left.

2 The pie chart shows the favourite choices of 180 people.
The angle for Pasta is not shown.
Work out how many people chose Pasta.



3 Expand and simplify $4(x - 6) + 3(x + 5)$

4 The scatter graph shows information about speed and stopping distance.
A line of best fit is drawn.
(a) Describe the correlation.
(b) Use the line of best fit to estimate the stopping distance when speed is 64.



5 (a) The point P(−4, −5) is enlarged with scale factor −1 and centre the origin. Write down the coordinates of the image.
(b) The point P(−4, −5) is translated by the vector $\begin{pmatrix} -4 \\ -3 \end{pmatrix}$. Write down the coordinates of the image.

Day 52	B Tier 10-a-day
6 Here is a list of numbers. 58, 19, 26, 8, 31, 86, 49, 59 From the list, write down (a) a cube number (b) a multiple of 7	
7 Line L has equation $y = -x - 6$ Line M is parallel to line L and passes through the point $(-2, -5)$. Find the equation of line M.	
8 A cheetah runs at 4 metres per second. Work out this speed in kilometres per hour.	
9 The equation $x^3 + 2x = 82$ has a solution between 4 and 5. (Calculator) Use trial and improvement to find this solution. Give your answer correct to 1 decimal place.	
10 Write 9442.3504 (a) correct to 1 decimal place, (b) correct to 2 significant figures.	