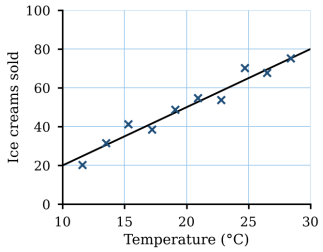
Day 107 **B Tier 10-a-day**

1 A rectangle is 2 m long and 10 m wide.
It is enlarged by scale factor ½.
(a) Write down the length and width of the enlarged rectangle.
(b) Work out the perimeter of the enlarged rectangle.

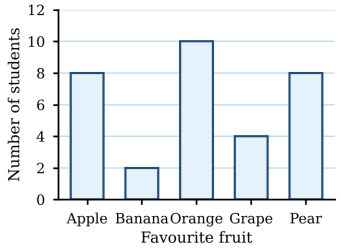
2 The scatter graph shows information about temperature and ice creams sold.
A line of best fit is drawn.
(a) Describe the correlation.
(b) Use the line of best fit to estimate the ice creams sold when temperature is 15.



3 A rectangular pond is 8 m by 12 m.
There is a path of width 1 m all the way round the outside of the pond.
Work out the area of the path.

4 Factorise $x^2 - 2x$

5 The bar chart shows some information.
(a) Which bar is the shortest?
(b) What percentage of the total is Pear?



Day 107	B Tier 10-a-day
6 Solve $x^2 + 6x + 5 = 0$	
7 The circumference of a circle is 71 cm. (Calculator) Work out the diameter of the circle. Give your answer correct to 1 decimal place.	
8 Tom has $\frac{1}{5}$ of £40. Sophie has 40% of £200. Who has more money? You must show your working.	
9 Show that the sum of 3 consecutive whole numbers is always a multiple of 3.	
10 There are 7.8×10^4 fish in a lake. The number triples every day. How many are there after 6 days? Give your answer in standard form.	