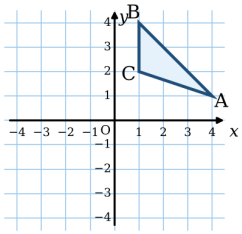
Day 321 **B Tier 10-a-day**

1 What fraction of £1.50 is 60p?
Give your answer in its simplest form.

2 The diagram shows triangle ABC on a grid.
(a) Write down the coordinates of the image of B after a reflection in the line x = 2.
(b) Write down the coordinates of the image of C after a reflection in the x-axis.



3 I think of a number.
I add 14 and then multiply the result by 6.
The answer is 120.
Work out my number.

4 The table shows some information about 66 students.
A person is chosen at random.
Find the probability that the person is in the group "Girls" and chose "Walk".

	Walk	Bus	Total
Boys	23		32
Girls		24	
Total			66

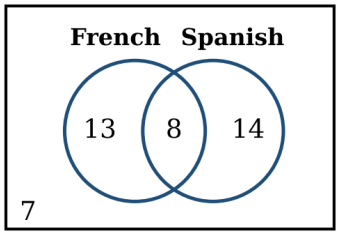
5 Here are the first four terms of a sequence.
7, 11, 15, 19
Find an expression, in terms of n, for the nth term of this sequence.

Day 321	B Tier 10-a-day

6 100 frogs in a lake are caught, tagged and returned to the lake.
Later, a sample of 60 frogs is caught and 12 of them are tagged.
Estimate the total number of frogs in the lake.

7 Make n the subject of the formula
$C = 7(n + 11)$

8 The Venn diagram shows information about 42 pupils in Year 9.
One of them is chosen at random.
Find the probability that the person chose French.



9 A spacecraft travels at 2×10^6 km per hour.
It travels for 4.4×10^4 hours at this speed.
Work out how far it travels.
Give your answer in standard form.

10 The diagram shows 3 angles round a point.
Work out the value of y.
The diagram is not drawn accurately.

