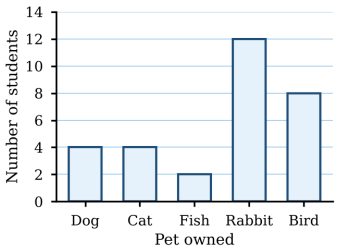
Day 356 **B Tier 10-a-day**

1 George buys 4 bottles of juice at £2.10 each and 2 pens at £1.45 each.
He pays with a £50 note.
Work out how much change he gets.

2 The bar chart shows some information.
(a) Write down the mode.
(b) What fraction of the total is Bird? Give your answer in its simplest form.



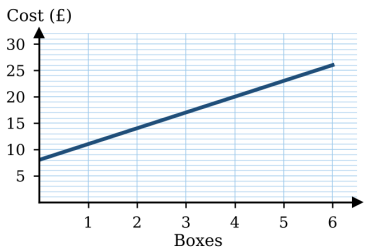
3 On a map, 1 cm represents 1 km.
Two towns are 12 cm apart on the map.
(a) Work out the real distance between the towns.
(b) Write the scale of the map in the form 1 : n.

4 Work out the value of this expression.
(Calculator)

$$\frac{9.3}{8.1} + \frac{4.1}{7.6}$$

Give your answer correct to 2 significant figures.

5 A printing company charges a set-up fee plus a cost for each box of leaflets.
The graph shows the total cost.
(a) Write down the fixed charge.
(b) Work out the cost for each box.



Day 356	B Tier 10-a-day
6 Triangle PQR has sides of 4 mm and 7 mm, and an angle of 60° that is not between them. Triangle XYZ has sides of 4 mm and 7 mm, and an angle of 60° between them. Are the two triangles congruent? Give a reason for your answer.	
7 There are 300 visitors. $\frac{3}{5}$ of them are men and the rest are women. $\frac{3}{5}$ of the men and $\frac{2}{5}$ of the women buy a drink. One person is chosen at random. Work out the probability that they buy a drink.	
8 A rectangle has length (3x + 5) cm and width (x + 3) cm. The perimeter of the rectangle is 64 cm. (a) Work out the value of x. (b) Work out the area of the rectangle.	
9 Chloe bought a laptop for £300 and sold it for £225. Work out the percentage loss.	
10 I think of a number. I divide it by 4 and then add 4. The answer is 9. Work out my number.	