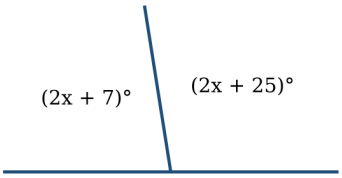
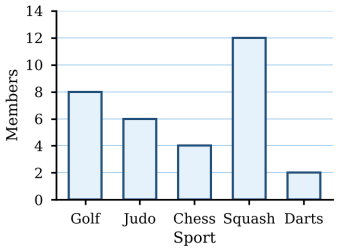
Day 335 **B Tier 10-a-day**

1 The diagram shows 2 angles on a straight line.
Work out the value of x.
The diagram is not drawn accurately.



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



3 Solve $\frac{4x + 8}{4} = 5$

4 A cube has side length 10 cm.
Work out the total surface area of the cube.

5 Factorise $x^2 - x - 2$

Day 335 **B Tier 10-a-day**

6 The table shows some information about 57 students.
One person from the group "Girls" is chosen at random.
Find the probability that this person chose "Walk".

	Walk	Bus	Total
Boys	15		29
Girls		9	
Total			57

7 $A = 2^2 \times 3^2 \times 5$
$B = 2 \times 5 \times 7$
Write down, as a product of prime factors,
(a) the HCF of A and B
(b) the LCM of A and B

8 In triangle XYZ, XY = 9 cm, YZ = 10 cm and angle XYZ = 40°. (Calculator)
Work out the area of the triangle.
Give your answer correct to 1 decimal place.

9 The length of a rectangle is 25 cm and its width is 18 cm.
Both measurements are correct to the nearest cm.
Work out the upper bound for the perimeter of the rectangle.

10 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 16.

