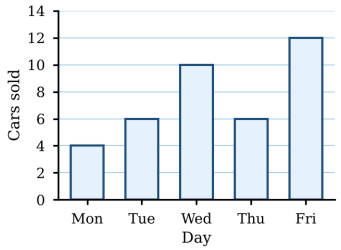
Day 42 **B Tier 10-a-day**

1 The bar chart shows some information.
(a) How many more were there for Wed than for Tue?
(b) Work out the total of all five bars.



2 The scale of a map is 1 : 10 000.
Two villages are 8 cm apart on the map.
Work out the real distance between them.
Give your answer in metres.

3 A jug holds 2.4 litres of juice.
Each glass holds 150 ml.
How many glasses can be filled from the jug?

4 Complete the table of values for $y = -3x - 5$

x	−2	−1	0	1	2
y	1				−11

5 Work out
(a) $3^2 + 2^3$
(b) $\sqrt{16} - 2^2$

Day 42 **B Tier 10-a-day**

6 The table shows the shoe sizes of students in a class.
(a) Write down the mode.
(b) Work out the median.

Shoe size	4	5	6	7
Frequency	8	4	6	2

7 $s = ut + \frac{1}{2}at^2$
Work out the value of s when u = 6, a = 3 and t = 4

8 A lorry travels at 80 km/h for 1 hour and then at 90 km/h for 1.5 hours.
Work out its average speed for the whole journey.

9 The length of a rectangle is 39 cm and its width is 7 cm.
Both measurements are correct to the nearest cm.
Work out the lower bound for the area of the rectangle.

10 A boat sails 4 m on a bearing of 270° from P to Q, then 3 m on a bearing of 000° to R.
(Calculator)
(a) Work out the distance PR.
(b) Work out the bearing of R from P.
Give your answers correct to 1 decimal place.

