Day 91 **C Tier 10-a-day: Model Solutions**

1 Place value

Write down the value of the digit 4 in the number 79,846.

The digit 4 is in the tens column
4 × 10 = 40
Answer: 40

2 Which expression

Which of these means 4 added to p?

$\frac{p}{4}$, p + 4, 4p, p^2

4 added to p is written p + 4
Answer: p + 4

3 Adding decimals

Work out 2.3 + 6.9.

Line up the decimal points
2.3 + 6.9 = 9.2
Answer: 9.2

4 Formulae in words

Here is a rule to work out the fare for a taxi journey.
Fare (£) = 6 × number of miles + 12
Work out the fare for a journey of 8 miles.

Fare (£) = 6 × 8 + 12
= 48 + 12 = 60
Answer: £60

5 Map scales

On a map, 1 cm represents 20 km.
Two towns are 100 km apart in real life.
How far apart are they on the map?

100 ÷ 20 = 5
Answer: 5 cm

6 Bearings from compass points

Bearings are measured clockwise from north.
Write down the three-figure bearing of
(a) south
(b) north-west

North is 000°. Each compass point to the right (clockwise) is a further 45°.
(a) south is 180°
(b) north-west is 315°
Answer: (a) 180° (b) 315°

7 Two-way tables

The two-way table shows some information.
Work out the missing number, shown by ?

Bus column: 16 + 17 = 33
Answer: 33

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8 Missing side from area

A rectangular wall has an area of 26 cm^2.
Its length is 13 cm.
Work out its width.

Area = length × width
26 = 13 × width
width = 26 ÷ 13 = 2
Answer: 2 cm

9 Finding a missing value from the mean

The mean of five numbers is 11.
Four of the numbers are 12, 8, 5 and 10.
Work out the other number.

Total of all the numbers: 11 × 5 = 55
Total of those given: 12 + 8 + 5 + 10 = 35
55 − 35 = 20
Answer: 20

10 Perimeter on a square grid

The diagram shows a shape drawn on a square grid.
Each square has a side of length 1 cm.
Work out the perimeter of the shape.

Count the length of each side going round the shape.
2 + 1 + 2 + 1 + 4 + 2 = 12
Answer: 12 cm