Day 218 **C Tier 10-a-day: Model Solutions**

1 Writing numbers in words

Write the number 3570 in words.

Split the number: 3000 + 500 + 70

Answer: three thousand five hundred and seventy

2 Time from distance and speed

A cyclist travels 50 km at 10 km/h.
How long does the journey take?

Time = distance ÷ speed
50 ÷ 10 = 5
Answer: 5 hours

3 Reading coordinates

Write down the coordinates of
(a) point A
(b) point B

Read the x-coordinate (across) first, then the y-coordinate (up or down).
(a) A: (−2, −2)
(b) B: (2, 1)
Answer: (a) (−2, −2) (b) (2, 1)

4 Number puzzles

Kim thinks of a number.
Kim adds 12.
The answer is 47.
What number did Kim think of?

Subtract 12 from 47
47 − 12 = 35
Answer: 35

5 Duration of a journey

A bus leaves at 5:35 pm and arrives at 8:35 pm.
How long does the journey take?

Count on from 5:35 pm to 8:35 pm:
25 minutes to 6:00 pm
2 hours to 8:00 pm
35 minutes to 8:35 pm
Total: 3 hours
Answer: 3 hours

6 Average speed

A train travels 200 miles in 4 hours.
Work out its average speed.

Speed = distance ÷ time
200 ÷ 4 = 50
Answer: 50 mph

7 Area on a square grid

The diagram shows a shape drawn on a square grid.
Each square has an area of 1 cm^2.
Work out the area of the shape.

Count the squares in the shape.
Split into two rectangles: 5 × 4 = 20 and 4 × 1 = 4
20 + 4 = 24
Answer: 24 cm^2

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8 Timetables

The table shows the times of two buses.
How many minutes does Bus 2 take to go from School to Market?

09:10 − 08:50
Count on from 08:50 to 09:10
Answer: 20 minutes

9 Coordinates

Here are three points.
(0, 2), (2, 0), (5, 9)
Which point lies on the x-axis?

A point on the x-axis has y-coordinate 0
Answer: (2, 0)

10 Division in context

Each van holds 40 people.
147 people need a lift.
How many vans are needed?

147 ÷ 40 = 3 remainder 27
The extra people need another van
Answer: 4