Day 362 **C Tier 10-a-day: Model Solutions**

1 The range

Here are the numbers of goals scored by a team in some matches.
2 6 3 4 4
Work out the range.

Range = largest value − smallest value
6 − 2 = 4
Answer: 4

2 Substitution

Work out the value of 9 + n when n = 4.

9 + 4 = 13
Answer: 13

3 Units of time

How many seconds are there in 8 minutes?

1 minute = 60 seconds
8 × 60 = 480
Answer: 480

4 Area on a square grid

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

Count the squares in the shape.
Split into two rectangles: 4 × 2 = 8 and 4 × 4 = 16
8 + 16 = 24
Answer: 24 m^2

5 Completing a table

The table shows the favourite fruit of 40 students.
Work out the number of students for Banana.

Add the known numbers: 13 + 12 + 8 = 33
40 − 33 = 7
Answer: 7

6 Estimation

Estimate the value of 68 + 18 by rounding each number to the nearest 10.

68 rounds to 70 and 18 rounds to 20
70 + 20 = 90
Answer: 90

7 Volume of a cuboid

The diagram shows a cuboid.
Work out the volume of the cuboid.
The diagram is not drawn accurately.

Volume = length × width × height
9 × 2 × 3
9 × 2 = 18, then 18 × 3 = 54
Answer: 54 cm^3

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8 Special sequences

Here are the first four terms of a sequence.
3, 30, 300, 3000
Write down the next two terms.

Each term is 10 times the one before
3000 × 10 = 30000
30000 × 10 = 300000
Answer: 30000, 300000

9 Timetables

The table shows part of a bus timetable.
Priya arrives at Library at 07:47.
What is the time of the next bus from Library?

Look along the Library row for the first time after 07:47
The next bus is at 07:50
Answer: 07:50

10 Order of operations

Work out 9 × (2 + 3).

Brackets first
2 + 3 = 5
9 × 5 = 45
Answer: 45