Day 263 **C Tier 10-a-day: Model Solutions**

1 Ordering numbers

Write these numbers in order, starting with the smallest.
608, 614, 766, 591

Compare the hundreds digits first, then the tens
591, 608, 614, 766
Answer: 591, 608, 614, 766

2 Solving equations

Solve 3 + a = 10

Subtract 3 from both sides
a = 10 − 3 = 7
Answer: a = 7

3 Division

Work out 156 ÷ 6.

6 × 26 = 156
So 156 ÷ 6 = 26
Answer: 26

4 Perimeter on a square grid

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

Count the length of each side going round the shape.
3 + 4 + 1 + 1 + 2 + 3 = 14
Answer: 14 m

5 Coordinates

Here are three points.
(2, 0), (2, 5), (0, 4)
Which point lies on the x-axis?

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

6 Estimation

Estimate the value of 58 + 71 by rounding each number to the nearest 10.

58 rounds to 60 and 71 rounds to 70
60 + 70 = 130
Answer: 130

7 Two-way tables

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

Year 7 row: 11 + 12 = 23
Answer: 23

8 Reading coordinates

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

Read the x-coordinate (across) first, then the y-coordinate (up or down).
(a) A: (6, 3)
(b) C: (3, 2)
Answer: (a) (6, 3) (b) (3, 2)

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9 Pay rates

Ella is paid £12 for each hour of work.
Ella is paid £72 in total.
How many hours did Ella work?

£72 ÷ £12 = 6
Answer: 6 hours

10 Substitution

n = 7 and q = 9
Work out the value of
(a) nq
(b) 2n + q

(a) 7 × 9 = 63
(b) 2 × 7 + 9 = 23
Answer: (a) 63 (b) 23