Day 48 **C Tier 10-a-day: Model Solutions**

1 Writing numbers in figures

Write seven thousand four hundred and six in figures.

Write each part: 7000 + 400 + 6
Add the parts together
Answer: 7406

2 Perimeter of a rectangle

The diagram shows a rectangle.
Work out the perimeter of the rectangle.
The diagram is not drawn accurately.

Add up all four sides
15 + 10 + 15 + 10 = 50
Answer: 50 cm

3 Solving equations

Solve d + 9 = 20

Subtract 9 from both sides
d = 20 − 9 = 11
Answer: d = 11

4 Line graphs

The line graph shows the temperature in a garden at different times.
Write down the temperature at 9 am.

Go up from 9 am to the line, then across to the scale: 9°C
Answer: 9°C

5 Ordering fractions

Write these fractions in order, starting with the smallest.

$\frac{4}{8}, \frac{1}{8}, \frac{3}{8}$

The denominators are all 8, so compare the numerators
1, 3, 4 (numerators in order)
Answer: $\frac{1}{8}, \frac{3}{8}, \frac{4}{8}$

6 Reading a straight-line graph

The graph shows the cost of fabric.
Use the graph to find the cost of 6 m of fabric.

Go up from 6 on the horizontal axis to the line, then across
Cost = £18
Answer: £18

7 Order of operations

Work out 2 × (7 + 3).

Brackets first
7 + 3 = 10
2 × 10 = 20
Answer: 20

8 Venn diagrams

Some students were asked whether they like pizza or pasta.
The Venn diagram shows the results.
How many students like pasta?

Add the number in the pasta circle: 6 + 5 = 11
Answer: 11

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9 Perimeter from area

A rectangular room has an area of 45 cm^2.
Its width is 5 cm.
Work out the perimeter of the room.

Length = area ÷ width = 45 ÷ 5 = 9
Perimeter = 9 + 5 + 9 + 5 = 28
Answer: 28 cm

10 Using formulae

The distance, d km, travelled in t hours is given by the formula d = 7t.
(a) Work out the value of d when t = 3.
(b) Work out the value of t when d = 28.

(a) d = 7 × 3 = 21
(b) 7t = 28, so t = 28 ÷ 7 = 4
Answer: (a) d = 21 (b) t = 4