Day 37 **C Tier 10-a-day: Model Solutions**

1 Ordering numbers

Write these numbers in order, starting with the largest.
449, 431, 626, 565, 117

Compare the hundreds digits first, then the tens
626, 565, 449, 431, 117
Answer: 626, 565, 449, 431, 117

2 Choosing units

Which unit is best for measuring the length of a bus?
Choose from: mm, cm, m, km

A bus is about 10 metres long
So the best unit is m
Answer: m

3 Substitution

Work out the value of b + 7 when b = −5.

−5 + 7 = 2
Answer: 2

4 Faces, edges and vertices

How many faces does a cuboid have?

A cuboid: 2 ends plus 4 sides: 2 + 4 = 6
Answer: 6

5 Number puzzles

Isla thinks of a number.
Isla multiplies it by 4.
The answer is 16.
What number did Isla think of?

Divide 16 by 4
16 ÷ 4 = 4
Answer: 4

6 Frequency tables

The table shows the number of pets owned by each student in a class.
Work out the total frequency.

9 + 9 + 10 + 3 + 6 = 37
Answer: 37

7 Negative numbers

Work out −9 + 4.

Use a number line
−9 + 4 = −5
Answer: −5

8 Sequences

Here are the first four terms of a sequence.
9, 17, 25, 33
Is 87 a term in this sequence?
You must show your working.

The terms go up by 8 each time
Continue the sequence: 9, 17, 25, 33, 41, 49, 57, 65, 73, 81, 89
87 is not in the list
Answer: No

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9 Sampling

Harry wants to find out whether people like dogs.
Harry asks only people walking their dogs in a park.
Give a reason why this sample may be biased.

Dog walkers are more likely to like dogs

Answer: Dog walkers are more likely to like dogs

10 Perimeter from area

A rectangular room has an area of 39 m^2.
Its width is 3 m.
Work out the perimeter of the room.

Length = area ÷ width = 39 ÷ 3 = 13
Perimeter = 13 + 3 + 13 + 3 = 32

Answer: 32 m