Day 56 **C Tier 10-a-day: Model Solutions**

1 Missing numbers

Find the missing number.

? ÷ 7 = 7

7 × 7 = 49

Answer: 49

2 Area of a rectangle

A rectangular poster is 6 m long and 2 m wide.

Work out its area.

Area = length × width

6 × 2 = 12

Answer: 12 m^2

3 Line graphs

The line graph shows the number of cars in a car park at different times.

At what time was the number of cars greatest?

The highest point on the graph is 40

This is at 11 am

Answer: 11 am

4 Solving equations

Solve y − 10 = 11

Add 10 to both sides

y = 11 + 10 = 21

Answer: y = 21

5 Number puzzles

I think of a number.

I multiply it by 6.

My answer is 84.

What number did I think of?

Work backwards: divide by 6

84 ÷ 6 = 14

Answer: 14

6 Currency conversion

£1 = €1.10

Change £20 into euros.

£20 × 1.10 = €22

Answer: €22

7 Function machines

Here is a function machine.

The output is 22.

Work out the input.

Work backwards using the opposite operations

22 − 12 = 10

10 − 4 = 6

Answer: 6

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8 Enlargement

A triangle has sides of length 3 cm, 4 cm and 5 cm.
It is enlarged by scale factor 5.
Write down the lengths of the sides of the enlarged triangle.

Multiply each side by 5
3 × 5 = 15, 4 × 5 = 20, 5 × 5 = 25
Answer: 15 cm, 20 cm, 25 cm

9 Division in context

Each van holds 30 people.
92 people need a lift.
How many vans are needed?

92 ÷ 30 = 3 remainder 2
The extra people need another van
Answer: 4

10 Reading a pie chart

28 people were asked about their favourite sport.
The pie chart shows the results.
How many people chose Golf?

The Golf sector is a quarter of the pie chart
28 ÷ 4 = 7
Answer: 7