Day 42 **C Tier 10-a-day: Model Solutions**

1 Length conversions

Change 12 cm into mm.

1 cm = 10 mm, so multiply by 10: 12 × 10 = 120

Answer: 120 mm

2 Frequency tables

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

7 + 11 + 12 + 11 + 3 = 44

Answer: 44

3 Area of a rectangle

A rectangular poster is 7 m long and 5 m wide.
Work out its area.

Area = length × width
7 × 5 = 35

Answer: 35 m^2

4 Rounding decimals

Round 29.3 to the nearest whole number.

Look at the first decimal digit, which is 3
3 is less than 5, so round down

Answer: 29

5 Solving equations

Solve 5 + c = 21

Subtract 5 from both sides
c = 21 − 5 = 16

Answer: c = 16

6 Estimation

Estimate the value of 52 + 32 by rounding each number to the nearest 10.

52 rounds to 50 and 32 rounds to 30
50 + 30 = 80

Answer: 80

7 Finding a missing value from the mean

The mean of four numbers is 6.
Three of the numbers are 4, 11 and 7.
Work out the other number.

Total of all the numbers: 6 × 4 = 24
Total of those given: 4 + 11 + 7 = 22
24 − 22 = 2

Answer: 2

8 Coordinates

Here are three points.
(0, 4), (6, 0), (7, 5)
Which point lies on the x-axis?

A point on the x-axis has y-coordinate 0

Answer: (6, 0)

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9 Reading a pie chart

44 children were asked about their favourite animal.
The pie chart shows the results.
How many children chose Bird?

The Bird sector is a quarter of the pie chart
44 ÷ 4 = 11
Answer: 11

10 Order of operations

Work out 6 × (6 + 3).

Brackets first
6 + 3 = 9
6 × 9 = 54
Answer: 54