Day 338 **C Tier 10-a-day: Model Solutions**

1 Money

A banana costs 20p.
Work out the cost of 6 bananas.
Give your answer in pounds.

20p × 6 = 120p
120p = £1.20
Answer: £1.20

2 Area on a square grid

The diagram shows a shape drawn on a square grid.
Each square has an area of 1 cm^2.
Work out the area of the shape.

Count the squares in the shape.
Split into two rectangles: 3 × 2 = 6 and 4 × 4 = 16
6 + 16 = 22
Answer: 22 cm^2

3 Bar charts

The bar chart shows the ways some students travel to school.
Work out the total number of students.

45 + 40 + 10 + 25 = 120
Answer: 120

4 Solving equations

Solve 14 + n = 21

Subtract 14 from both sides
n = 21 − 14 = 7
Answer: n = 7

5 Proportion

6 bananas cost £2.70.
Work out the cost of 8 bananas.

Cost of one banana: 270p ÷ 6 = 45p
45p × 8 = 360p
360p = £3.60
Answer: £3.60

6 Translating a point

The point A has coordinates (5, 4).
A is moved 6 left and 3 down.
Write down the coordinates of the new point.

x-coordinate: 5 − 6 = −1
y-coordinate: 4 − 3 = 1
Answer: (−1, 1)

7 Timetables

The table shows the times of two buses.
How many minutes does Bus 2 take to go from School to Market?

08:55 − 08:45
Count on from 08:45 to 08:55
Answer: 10 minutes

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8 Enlargement

A square has sides of length 2 cm.
It is enlarged by scale factor 4.
Work out the length of a side of the enlarged square.

Multiply the side by the scale factor
2 × 4 = 8
Answer: 8 cm

9 Sequences

Here are the first four terms of a sequence.
7, 12, 17, 22
Is 57 a term in this sequence?
You must show your working.

The terms go up by 5 each time
Continue the sequence: 7, 12, 17, 22, 27, 32, 37, 42, 47, 52, 57, 62
57 is in the list
Answer: Yes

10 Multiples

Here is a list of numbers.
10, 47, 70, 26, 27
Write down the multiple of 3.

Check which number is in the 3 times table
3 × 9 = 27
Answer: 27