Day 144 **C Tier 10-a-day: Model Solutions**

1 Place value

Write down the value of the digit 3 in the number 6483.

The digit 3 is in the units column

Answer: 3

2 Pictograms

The pictogram shows the number of apples sold in a shop.
Work out the total number of apples.

Number of symbols: 1 + 4 + 4 + 3.5 = 12.5
12.5 × 4 = 50
Answer: 50

3 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
14 + 11 + 14 + 11 = 50
Answer: 50 cm

4 Rounding money

Round £9.74 to the nearest pound.

Look at the pence: 74 p
50p or more, so round up
Answer: £10

5 Sequences

Here are the first four terms of a sequence.
1, 2, 4, 8
(a) Write down the next term.
(b) Write down the rule for finding the next term.

(a) Each term is 2 times the one before
Next term = 16
(b) Multiply by 2 each time
Answer: (a) 16 (b) Multiply by 2

6 Division

Work out 261 ÷ 9.

9 × 29 = 261
So 261 ÷ 9 = 29
Answer: 29

7 Sharing in a ratio

Jack and Femi share 50 sweets in the ratio 1 : 4.
Work out how much each person gets.

Number of parts = 1 + 4 = 5
One part = 50 ÷ 5 = 10
Jack: 1 × 10 = 10 Femi: 4 × 10 = 40
Answer: Jack 10, Femi 40

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8 Coordinates

ABCD is a rectangle.
A is the point (8, 6), B is the point (3, 6) and C is the point (3, 0).
Write down the coordinates of D.

AB is horizontal so D has the same x-coordinate as A: 8
BC is vertical so D has the same y-coordinate as C: 0
Answer: (8, 0)

9 Perimeter from area

A rectangular garden has an area of 70 m^2.
Its width is 7 m.
Work out the perimeter of the garden.

Length = area ÷ width = 70 ÷ 7 = 10
Perimeter = 10 + 7 + 10 + 7 = 34
Answer: 34 m

10 Probability of not getting a colour

A bag contains 2 black sweets, 4 red sweets and 2 yellow sweets.
One is taken at random.
Write down the probability that it is not black.

Number that are not black: 4 + 2 = 6
Total: 8

Probability = $\frac{6}{8} = \frac{3}{4}$

Answer: $\frac{3}{4}$