Day 151 **C Tier 10-a-day: Model Solutions**

1 Missing numbers

Find the missing number.

16 − ? = 10

16 − 10 = 6

Answer: 6

2 Rounding

Write 9086 to the nearest hundred.

Look at the tens digit, which is 8

8 is 5 or more, so round up

Answer: 9100

3 Perimeter on a square grid

The diagram shows a shape drawn on a square grid.

Each square has a side of length 1 cm.

Work out the perimeter of the shape.

Count the length of each side going round the shape.

5 + 2 + 2 + 3 + 2 + 3 + 5 + 4 = 26

Answer: 26 cm

4 Solving equations

Solve 9m = 36

9m means 9 × m, so divide both sides by 9

m = 36 ÷ 9 = 4

Answer: m = 4

5 Translating a point

The point A has coordinates (6, −4).

A is moved 4 left and 3 up.

Write down the coordinates of the new point.

x-coordinate: 6 − 4 = 2

y-coordinate: −4 + 3 = −1

Answer: (2, −1)

6 Negative numbers

Work out −5 + 3.

Use a number line

−5 + 3 = −2

Answer: −2

7 Rotational symmetry

Write down the order of rotational symmetry of

(a) a regular hexagon

(b) a regular octagon

(a) A regular hexagon fits onto itself 6 times in a full turn

(b) A regular octagon fits onto itself 8 times in a full turn

Answer: (a) 6 (b) 8

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8 Probability of an event not happening

The probability that the bus is late is $\frac{7}{12}$.

Work out the probability that this does not happen.

P(not) = 1 − P(event)

$1 - \frac{7}{12} = \frac{5}{12}$

Answer: $\frac{5}{12}$

9 Number sequences

Here is a number sequence.

34, 30, 26, 22, ...

Write down the next two numbers.

The sequence goes down by 4 each time

22 − 4 = 18, 18 − 4 = 14

Answer: 18, 14

10 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 10 am

Answer: 10 am