Day 23 **C Tier 10-a-day: Model Solutions**

1 Writing numbers in words

Write the number 1040 in words.

Split the number: 1000 + 40

Answer: one thousand and forty

2 Missing numbers

Find the missing number.

5 + ? = 17

17 − 5 = 12

Answer: 12

3 The median

Here are the numbers of goals scored by a team in some matches.

6 1 0 1 4

Work out the median.

Put the numbers in order: 0 1 1 4 6

The middle number is 1

Answer: 1

4 Rounding decimals

Round 69.9 to the nearest whole number.

Look at the first decimal digit, which is 9

9 is 5 or more, so round up

Answer: 70

5 Average speed

A train travels 50 miles in 5 hours.

Work out its average speed.

Speed = distance ÷ time

50 ÷ 5 = 10

Answer: 10 mph

6 Factors

Write down all the factors of 24.

Find pairs that multiply to make 24

1 × 24, 2 × 12, 3 × 8, 4 × 6

Answer: 1, 2, 3, 4, 6, 8, 12, 24

7 Translating a point

The point A has coordinates (5, −4).

A is moved 1 left and 4 up.

Write down the coordinates of the new point.

x-coordinate: 5 − 1 = 4

y-coordinate: −4 + 4 = 0

Answer: (4, 0)

8 The nth term

The nth term of a sequence is n + 4.

Write down the first three terms of the sequence.

Put n = 1, 2, 3 into n + 4

1 + 4 = 5, 2 + 4 = 6, 3 + 4 = 7

Answer: 5, 6, 7

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9 Line graphs

The line graph shows the depth of water in a tank at different times.
Work out the increase in the depth of water between 10 am and 12 pm.

At 10 am: 5 cm At 12 pm: 12 cm
12 − 5 = 7
Answer: 7 cm

10 Enlargement

A square has sides of length 7 cm.
It is enlarged by scale factor 2.
Work out the length of a side of the enlarged square.

Multiply the side by the scale factor
7 × 2 = 14
Answer: 14 cm