Day 206 **C Tier 10-a-day: Model Solutions**

1 Tally charts

The tally chart shows the types of film some people watched.
How many more people for Comedy than for Action?

Comedy: 10 Action: 6
10 − 6 = 4
Answer: 4

2 Estimating measurements

Which is the best estimate for the thickness of a coin?
2 mm 20 cm 2 cm 2 m

A coin is very thin
The best estimate is 2 mm
Answer: 2 mm

3 Writing numbers in figures

Write eight thousand five hundred and seventy-four in figures.

Write each part: 8000 + 500 + 74
Add the parts together
Answer: 8574

4 Pictograms

The pictogram shows the number of ice creams sold at a kiosk.
How many more ice creams on Sun than on Fri?

Sun: 1 × 2 = 2
Fri: 1 × 2 = 2
2 − 2 = 0
Answer: 0

5 Writing expressions

Priya thinks of a number, n.
Priya multiplies the number by 5 and then adds 1.
Write an expression for the answer.

Multiply by 5: 5n
Then add 1: 5n + 1
Answer: 5n + 1

6 Adding fractions

Work out $\frac{1}{5} + \frac{1}{5}$.

The denominators are the same, so add the numerators
1 + 1 = 2
Answer: $\frac{2}{5}$

7 Reflecting a point

The point P has coordinates (6, 2).
P is reflected in the line x = 9.
Write down the coordinates of the image of P.

The point is 3 from the line, so the image is 3 on the other side: 9 + 3 = 12
Answer: (12, 2)

8 Multiplying multiples of 10

Work out 80 × 3.

Work out 8 × 3 = 24
Then put the zeros back on
Answer: 240

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9 Finding a missing value from the mean

The mean of five numbers is 11.
Four of the numbers are 17, 18, 7 and 2.
Work out the other number.

Total of all the numbers: 11 × 5 = 55
Total of those given: 17 + 18 + 7 + 2 = 44
55 − 44 = 11
Answer: 11

10 Substitution

Work out the value of b + 6 when b = −4.

−4 + 6 = 2
Answer: 2