Day 35 **C Tier 10-a-day: Model Solutions**

1 Writing numbers in figures

Write three thousand one hundred and fifteen in figures.

Write each part: 3000 + 100 + 15
Add the parts together
Answer: 3115

2 Lines of symmetry

Write down the number of lines of symmetry of
(a) a rectangle
(b) a regular hexagon

(a) A rectangle has 2 lines of symmetry
(b) A regular hexagon has 6 lines of symmetry
Answer: (a) 2 (b) 6

3 Pay rates

Sam is paid £14 for each hour of work.
Sam works for 9 hours.
How much is Sam paid?

£14 × 9 = £126
Answer: £126

4 Angles in a quadrilateral

The diagram shows a quadrilateral.
Work out the size of angle p.
The diagram is not drawn accurately.

Angles in a quadrilateral add up to 360°
100 + 115 + 85 = 300
360 − 300 = 60
Answer: p = 60°

5 Solving equations

Solve $z - 4 = 20$

Add 4 to both sides
z = 20 + 4 = 24
Answer: z = 24

6 Equivalent fractions

Find the missing number.

$\frac{3}{10} = \frac{?}{20}$

10 × 2 = 20, so multiply the top by 2 as well
3 × 2 = 6
Answer: 6

7 Relative frequency

Out of 40 trains, 7 were late.
Estimate the probability of being late.
Give your answer as a fraction in its simplest form.

Relative frequency = $\frac{7}{40}$

Answer: $\frac{7}{40}$

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8 Order of operations

Work out 3 + 3 × 8.

Multiply first
3 × 8 = 24
3 + 24 = 27
Answer: 27

9 Reading a straight-line graph

The graph shows the cost of apples.
Use the graph to find the cost of 6 kg of apples.

Go up from 6 on the horizontal axis to the line, then across
Cost = £30
Answer: £30

10 Substitution

Work out the value of 6(b + 3) when b = 4.

Brackets first: 4 + 3 = 7
6 × 7 = 42
Answer: 42