Day 78 **C Tier 10-a-day: Model Solutions**

1 Addition

Work out 454 + 458.

Add the hundreds, tens and units
454 + 458 = 912
Answer: 912

2 Reading coordinates

Write down the coordinates of
(a) point B
(b) point C

Read the x-coordinate (across) first, then the y-coordinate (up or down).
(a) B: (2, 6)
(b) C: (4, 3)
Answer: (a) (2, 6) (b) (4, 3)

3 Missing numbers

Find the missing number.
? − 4 = 7

7 + 4 = 11
Answer: 11

4 Squares and roots

Work out 11^2.

$11^2 = 11 \times 11$
$= 121$
Answer: 121

5 Angles in a triangle (words)

Triangle XYZ has a right angle at X.
Angle Y = 35°.
Work out the size of angle Z.

The right angle is 90°
Angles in a triangle add up to 180°
180 − 90 − 35 = 55
Answer: 55°

6 Tables of values

Complete the table of values for y = 2x + 2.

When x = 2: y = 2 × 2 + 2 = 6
When x = 3: y = 2 × 3 + 2 = 8
Answer: x = 2: y = 6; x = 3: y = 8

7 Ratio, finding the other part

In a bowl, the ratio of apples to oranges is 4 : 3.
There are 6 oranges.
Work out the number of apples.

6 ÷ 3 = 2 for each part
4 × 2 = 8
Answer: 8

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8 Multiples: smallest common

Find the smallest number that is a multiple of both 4 and 7.

Multiples of 4: 4, 8, 12, 16, 20, 24, 28
Multiples of 7: 7, 14, 21, 28
28 is in both lists
Answer: 28

9 Perimeter of a square from its area

A square lawn has an area of 64 m^2.
Work out the perimeter of the lawn.

Side × side = 64, so the side is 8 m (because 8 × 8 = 64)
Perimeter = 4 × 8 = 32
Answer: 32 m

10 Pie chart angles

72 students were asked about their favourite fruit.
10 of them chose bananas.
The results are shown in a pie chart.
Work out the angle of the sector for those students.

360° ÷ 72 = 5° for each student
10 × 5° = 50°
Answer: 50°