Day 106 **C Tier 10-a-day: Model Solutions**

1 Missing numbers

Find the missing number.

? ÷ 9 = 8

8 × 9 = 72

Answer: 72

2 Rounding

Write 4316 to the nearest thousand.

Look at the hundreds digit, which is 3

3 is less than 5, so round down

Answer: 4000

3 Pay rates

Carlos is paid £8 for each hour of work.

Carlos is paid £40 in total.

How many hours did Carlos work?

£40 ÷ £8 = 5

Answer: 5 hours

4 Angles in a quadrilateral

The diagram shows a quadrilateral.

Work out the size of angle q.

The diagram is not drawn accurately.

Angles in a quadrilateral add up to 360°

55 + 110 + 120 = 285

360 − 285 = 75

Answer: q = 75°

5 Negative numbers: temperature

The temperature is −3°C.

It rises by 5°C.

What is the new temperature?

−3 + 5 = 2

Answer: 2°C

6 Reading coordinates

Write down the coordinates of

(a) point A

(b) point C

Read the x-coordinate (across) first, then the y-coordinate (up or down).

(a) A: (4, 6)

(b) C: (5, 1)

Answer: (a) (4, 6) (b) (5, 1)

7 Timetables

The table shows the times of two buses.

How many minutes does Bus 1 take to go from School to Market?

09:45 − 09:20

Count on from 09:20 to 09:45

Answer: 25 minutes

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8 Best buys

Bottles of water are sold in two packs.
Pack A has 10 and costs £5.50.
Pack B has 2 and costs £1.30.
Which pack is better value?

Pack A: 550p ÷ 10 = 55p each
Pack B: 130p ÷ 2 = 65p each
Pack A is cheaper per item
Answer: Pack A

9 Coordinates

ABCD is a rectangle.
A is the point (4, 3), B is the point (4, 6) and C is the point (2, 6).
Write down the coordinates of D.

AB is vertical so D has the same y-coordinate as A: 3
BC is horizontal so D has the same x-coordinate as C: 2
Answer: (2, 3)

10 Perimeter from area

A rectangular garden has an area of 84 m^2.
Its width is 7 m.
Work out the perimeter of the garden.

Length = area ÷ width = 84 ÷ 7 = 12
Perimeter = 12 + 7 + 12 + 7 = 38
Answer: 38 m