Day 193 **C Tier 10-a-day: Model Solutions**

1 Ordering numbers

Write these numbers in order, starting with the smallest.
452, 874, 236, 979, 118

Compare the hundreds digits first, then the tens
118, 236, 452, 874, 979
Answer: 118, 236, 452, 874, 979

2 Compass directions and turns

A ship is facing east.
A ship turns 270° clockwise.
Which direction is the ship facing now?

270° is 3 quarter turns
Turning clockwise from east: east → south → west → north
Answer: north

3 Two-way tables

The two-way table shows some information.
Work out the missing number, shown by ?

Pizza column: 19 + 18 = 37
Answer: 37

4 Reflecting a point

The point P has coordinates (1, −5).
P is reflected in the line y = −4.
Write down the coordinates of the image of P.

The point is 1 from the line, so the image is 1 on the other side: −4 + 1 = −3
Answer: (1, −3)

5 Coordinates

(a) Write down the coordinates of point Q.
(b) Which point has coordinates (−3, −1)?

(a) Q is right 2 and up 1
(b) Go left 3 and down 1: this is point R
Answer: (a) (2, 1) (b) R

6 Timetables

The table shows the times of two buses.
How many minutes does Bus 1 take to go from Park Road to Library?

10:30 − 10:15
Count on from 10:15 to 10:30
Answer: 15 minutes

7 Best buys

Tins of beans are sold in two packs.
Pack A has 12 and costs £7.20.
Pack B has 8 and costs £5.60.
Which pack is better value?

Pack A: 720p ÷ 12 = 60p each
Pack B: 560p ÷ 8 = 70p each
Pack A is cheaper per item
Answer: Pack A

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8 Equations of lines

A straight line passes through the points
(5, 4), (6, 4), (9, 4)
Write down the equation of the line.

Every point has y-coordinate 4, so the line is horizontal
Answer: y = 4

9 Perimeter of an L-shape

The diagram shows an L-shape.
All the corners are right angles.
Work out the perimeter of the shape.
The diagram is not drawn accurately.

Find the two missing sides.
Missing horizontal side: 14 − 4 = 10
Missing vertical side: 6 − 3 = 3
Add all six sides: 14 + 3 + 10 + 3 + 4 + 6 = 40
Answer: 40 cm

10 Adding decimals

Work out 2.46 + 2.52.

Line up the decimal points
2.46 + 2.52 = 4.98
Answer: 4.98