Day 323 **C Tier 10-a-day: Model Solutions**

1 Rounding

Write 6980 to the nearest hundred.

Look at the tens digit, which is 8
8 is 5 or more, so round up
Answer: 7000

2 Length conversions

Change 15 mm into cm.

10 mm = 1 cm, so divide by 10: 15 ÷ 10 = 1.5
Answer: 1.5 cm

3 Sequences

Here is a sequence with one number missing.
23, 27, ?, 35, 39
Work out the missing number.

The terms go up by 4 each time
27 + 4 = 31
Answer: 31

4 24-hour clock

Write 05:55 using am or pm.

Times before 12:00 are am
Answer: 5:55 am

5 Substitution

Work out the value of 6d − 16 when d = 3.

6d = 6 × 3 = 18
18 − 16 = 2
Answer: 2

6 Two-way tables

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

Pizza column: 4 + 12 = 16
Answer: 16

7 Multiplying multiples of 10

Work out 600 × 20.

Work out 6 × 2 = 12
Then put the zeros back on
Answer: 12000

8 Reflection on a grid

The point P is drawn on the grid.
P is reflected in the line x = 3.
Write down the coordinates of the image of P.

P is (2, 6)
P is 1 squares to the left of the line, so the image is 1 squares to the right
x-coordinate: 3 + 1 = 4
Answer: (4, 6)

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9 Substitution into formulae

Use the formula V = 3l + 3w to work out the value of V when l = 4 and w = 3.

V = 3 × 4 + 3 × 3
= 12 + 9 = 21
Answer: V = 21

10 Pie chart angles

45 students were asked about their way of travelling to school.
10 of them walk to school.
The results are shown in a pie chart.
Work out the angle of the sector for those students.

360° ÷ 45 = 8° for each student
10 × 8° = 80°
Answer: 80°