Day 49 **C Tier 10-a-day: Model Solutions**

1 Pictograms

The pictogram shows the number of cars washed on four days.
How many cars on Tue?

Tue has 3 symbols
3 × 2 = 6
Answer: 6

2 Ordering numbers

Write these numbers in order, starting with the smallest.
960, 386, 392, 912

Compare the hundreds digits first, then the tens
386, 392, 912, 960
Answer: 386, 392, 912, 960

3 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, −2)
(b) C: (−3, −1)
Answer: (a) (2, −2) (b) (−3, −1)

4 Currency conversion

£1 = $2.00
Change £30 into US dollars.

£30 × 2.00 = $60
Answer: $60

5 Simplifying expressions

Simplify 4b + 3x + x + 2b

Collect the b terms: 4 + 2 = 6b
Collect the x terms: 3 + 1 = 4x
Answer: 6b + 4x

6 Ratio, finding the other part

In a bowl, the ratio of apples to oranges is 2 : 3.
There are 12 oranges.
Work out the number of apples.

12 ÷ 3 = 4 for each part
2 × 4 = 8
Answer: 8

7 Bearings from compass points

Bearings are measured clockwise from north.
Write down the three-figure bearing of
(a) south-west
(b) south-east

North is 000°. Each compass point to the right (clockwise) is a further 45°.
(a) south-west is 225°
(b) south-east is 135°
Answer: (a) 225° (b) 135°

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8 Sequences

Here are the first four terms of a sequence.
2, 5, 8, 11
Is 29 a term in this sequence?
You must show your working.

The terms go up by 3 each time
Continue the sequence: 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32
29 is in the list
Answer: Yes

9 Timetables

The table shows the times of two buses.
How many minutes does Bus 2 take to go from Derby to Leeds?

08:55 – 08:30
Count on from 08:30 to 08:55
Answer: 25 minutes

10 Substitution

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

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