Day 1 **C Tier 10-a-day: Model Solutions**

1 Place value

Write the number 3052 in words.

3052 is 3 thousands, 0 hundreds, 5 tens and 2 units

Answer: Three thousand and fifty-two

2 Money

A pen costs 45p.
Work out the cost of four pens.
Give your answer in pounds.

45p × 4 = 180p
180p = £1.80
Answer: £1.80

3 Rounding

Write 2468 to the nearest hundred.

Look at the tens digit, which is 6
6 is 5 or more, so round the hundreds digit up: 2400 becomes 2500
Answer: 2500

4 Percentages of amounts

Calculate 10% of £8.

10% means 1 tenth
£8 ÷ 10 = £0.80
Answer: 80p

5 Angles round a point

The diagram shows three angles round a point.
Work out the size of angle y.
The diagram is not drawn accurately.

Angles round a point add up to 360°
110 + 130 = 240
360 − 240 = 120
Answer: y = 120°

6 Reading a table

The table shows the pets owned by some students.
How many more students own a dog than own a cat?

Dogs: 12 students
Cats: 8 students
12 − 8 = 4
Answer: 4

7 Substitution

Work out the value of 4a when a = 6.

4a means 4 × a
4 × 6 = 24
Answer: 24

8 Time

A film starts at 6:15 pm.
It lasts for 40 minutes.
At what time does the film end?

15 + 40 = 55 minutes past 6
The film ends at 6:55 pm
Answer: 6:55 pm

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9 Sequences

Here are the first four terms of a sequence.

4, 9, 14, 19

(a) Write down the next term.

(b) Write down the rule for finding the next term.

(a) 9 − 4 = 5, 14 − 9 = 5, 19 − 14 = 5, so the terms go up by 5

19 + 5 = 24

(b) Add 5 each time

Answer: (a) 24 (b) Add 5

10 Perimeter and area of a rectangle

The diagram shows a rectangle.

(a) Work out the perimeter of the rectangle.

(b) Work out the area of the rectangle.

The diagram is not drawn accurately.

(a) Add up all four sides: 8 + 5 + 8 + 5 = 26

(b) Area = length × width = 8 × 5 = 40

Answer: (a) 26 cm (b) 40 cm^2