Day 210 **C Tier 10-a-day: Model Solutions**

1 Choosing units

Which unit is best for measuring the capacity of a can of drink?
Choose from: ml, litres

A can holds about 330 millilitres
So the best unit is ml
Answer: ml

2 Substitution

Work out the value of 2b when b = 9.

2b means 2 × b
2 × 9 = 18
Answer: 18

3 Even and odd numbers

Write down all the odd numbers in this list.
75, 62, 63, 40, 46

Odd numbers end in 1, 3, 5, 7 or 9
Answer: 75, 63

4 Rates

A tap fills a bath at 4 litres each minute.
How many litres are in the bath after 4 minutes?

4 × 4 = 16
Answer: 16 litres

5 Coordinates

Write down the coordinates of
(a) point E
(b) point G

Go across first (x), then up (y)
E is 3 across and 4 up
G is 1 across and 6 up
Answer: (a) (3, 4) (b) (1, 6)

6 Area of a triangle

The diagram shows a triangle.
Work out the area of the triangle.
The diagram is not drawn accurately.

Area of a triangle = base × height ÷ 2
6 × 12 = 72
72 ÷ 2 = 36
Answer: 36 cm^2

7 Inequalities

n is a whole number.
Write down all the possible values of n when
$-3 \leq n < 2$

n is at least −3 and smaller than 2
The smallest whole number is −3 and the largest is 1
Answer: −3, −2, −1, 0, 1

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8 Cost from area

A rectangular patio is 6 m long and 5 m wide.
Paving costs £10 per m^2.
Work out the cost of covering the patio.

Area = 6 × 5 = 30 m^2
Cost = 30 × £10 = £300
Answer: £300

9 Cost of one item

2 buns cost 40p.
Work out the cost of one bun.

40p ÷ 2 = 20p
Answer: 20p

10 Order of operations

Work out 2 + 2 × 7.

Multiply first
2 × 7 = 14
2 + 14 = 16
Answer: 16