Day 136 **C Tier 10-a-day: Model Solutions**

1 Halves, quarters and thirds

Write down a quarter of 48.

Halve, then halve again: 24, then 12

Answer: 12

2 Pictograms

The pictogram shows the number of books borrowed from a library.
How many more books on Thu than on Tue?

Thu: 2.5 × 10 = 25
Tue: 1 × 10 = 10
25 − 10 = 15

Answer: 15

3 Substitution

Work out the value of $\frac{w}{2}$ when w = 10.

$\frac{w}{2}$ means w ÷ 2

10 ÷ 2 = 5

Answer: 5

4 Perimeter of a rectangle

A rectangular table top is 11 cm long and 8 cm wide.
Work out the perimeter.

Add up all four sides
11 + 8 + 11 + 8 = 38

Answer: 38 cm

5 Adding decimals

Work out 7.1 + 2.0.

Line up the decimal points
7.1 + 2.0 = 9.1

Answer: 9.1

6 Timetables

The table shows part of a bus timetable.
How long does Bus 3 take to travel from Church to Hospital?

Leaves Church at 09:45 and arrives at Hospital at 10:00
From 09:45 to 10:00 is 15 minutes

Answer: 15 minutes

7 Angles in a quadrilateral

The diagram shows a quadrilateral.
Work out the size of angle y.
The diagram is not drawn accurately.

Angles in a quadrilateral add up to 360°
95 + 75 + 80 = 250
360 − 250 = 110

Answer: y = 110°

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8 Best buys

Eggs are sold in two packs.
Pack A has 2 and costs 30p.
Pack B has 3 and costs 60p.
Which pack is better value?

Pack A: 30p ÷ 2 = 15p each
Pack B: 60p ÷ 3 = 20p each
Pack A is cheaper per item
Answer: Pack A

9 Equations of lines

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

In every point the y-coordinate is equal to the x-coordinate
Answer: y = x

10 Division in context

Each van holds 30 people.
87 people need a lift.
How many vans are needed?

87 ÷ 30 = 2 remainder 27
The extra people need another van
Answer: 3