Day 295 **C Tier 10-a-day: Model Solutions**

1 Addition

Work out 486 + 241.

Add the hundreds, tens and units
486 + 241 = 727
Answer: 727

2 Radius and diameter

The diameter of a round table is 46 cm.
Work out the radius.

The radius is half the diameter
46 ÷ 2 = 23
Answer: 23 cm

3 Division

Work out 90 ÷ 3.

3 × 30 = 90
So 90 ÷ 3 = 30
Answer: 30

4 Types of triangle

A triangle has sides of length 4 cm, 4 cm and 4 cm.
What type of triangle is it?

All three sides are equal
Answer: equilateral

5 Two-way tables

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

Tea column: 15 + 11 = 26
Answer: 26

6 Simplifying expressions

Simplify 6y + 4y + 3p + 4p

Collect the p terms: 3 + 4 = 7p
Collect the y terms: 6 + 4 = 10y
Answer: 7p + 10y

7 Number puzzles

I think of a number.
I multiply it by 6.
My answer is 108.
What number did I think of?

Work backwards: divide by 6
108 ÷ 6 = 18
Answer: 18

8 Venn diagrams

Some students were asked whether they like tea or coffee.
The Venn diagram shows the results.
How many students like coffee?

Add the number in the coffee circle: 7 + 2 = 9
Answer: 9

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9 Enlargement

A rectangle is 6 cm long and 6 cm wide.
It is enlarged by scale factor 2.
Write down the length and the width of the enlarged rectangle.

Multiply each length by 2
6 × 2 = 12
6 × 2 = 12
Answer: length 12 cm, width 12 cm

10 Coordinates

Here are three points.
(7, 0), (8, 1), (0, 5)
Which point lies on the y-axis?

A point on the y-axis has x-coordinate 0
Answer: (0, 5)