Day 94 **C Tier 10-a-day: Model Solutions**

1 Adding decimals

Work out 4.83 + 1.95.

Line up the decimal points
4.83 + 1.95 = 6.78
Answer: 6.78

2 Which expression

Which of these means y multiplied by 2?

$\frac{y}{2}$, 2y, y^2, y + 2

y × 2 is written 2y
Answer: 2y

3 Angles in a triangle (words)

Triangle LMN has a right angle at L.
Angle M = 20°.
Work out the size of angle N.

The right angle is 90°
Angles in a triangle add up to 180°
180 − 90 − 20 = 70
Answer: 70°

4 Substitution

Work out the value of 8 + y when y = 5.

8 + 5 = 13
Answer: 13

5 Reading a table

The table shows the favourite sport of some students.
Write down the number of students for Golf.

Read the value under Golf: 11
Answer: 11

6 Volume by counting cubes

A tray holds 1 cm cubes in layers.
Each layer is 4 cubes long and 4 cubes wide.
There are 2 layers.
How many cubes are there altogether?

Cubes in one layer: 4 × 4 = 16
Number of layers: 2
16 × 2 = 32
Answer: 32 cubes

7 Reading a pie chart

16 children were asked about their favourite animal.
The pie chart shows the results.
How many children chose Cat?

The Cat sector is a half of the pie chart
16 ÷ 2 = 8
Answer: 8

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8 Number line

The number line shows an arrow.
Write down the number the arrow points to.

The numbers go up by 1 for each mark
The arrow points to 0
Answer: 0

9 Forming and solving equations

There are x pencils in each box.
5 boxes hold 45 pencils in total.
(a) Write down an equation using x.
(b) Solve your equation to find how many pencils are in each box.

(a) $5x = 45$
(b) $x = 45 \div 5 = 9$
Answer: (a) $5x = 45$ (b) $x = 9$

10 Circles with an approximate pi

A circle has a radius of 3 cm.
Use $\pi = 3$ to work out an estimate for its area.

Area = $\pi \times$ radius $\times$ radius
$3 \times 3 \times 3 = 3 \times 9 = 27$
Answer: 27 cm^2