Day 149 **C Tier 10-a-day: Model Solutions**

1 Writing numbers in words

Write the number 3733 in words.

Split the number: 3000 + 700 + 33

Answer: three thousand seven hundred and thirty-three

2 Which expression

Which of these means m multiplied by 9?

$\frac{m}{9}$, m^2, m + 9, 9m

m × 9 is written 9m

Answer: 9m

3 Estimating measurements

Which is the best estimate for the height of a classroom door?

2 km 2 cm 20 m 2 m

A door is a little taller than an adult

The best estimate is 2 m

Answer: 2 m

4 Solving equations

Solve 5b = 15

5b means 5 × b, so divide both sides by 5

b = 15 ÷ 5 = 3

Answer: b = 3

5 Timetables

The table shows part of a bus timetable.

How long does Bus 1 take to travel from Library to Park?

Leaves Library at 07:00 and arrives at Park at 07:10

From 07:00 to 07:10 is 10 minutes

Answer: 10 minutes

6 Estimation

Estimate the value of 93 − 56 by rounding each number to the nearest 10.

93 rounds to 90 and 56 rounds to 60

90 − 60 = 30

Answer: 30

7 Angles in parallel lines

Two parallel lines are crossed by a straight line.

Work out the size of angle x.

Give a reason for your answer.

The angles are on opposite sides of the transversal between the parallel lines, so they are alternate angles

Alternate angles are equal

x = 75°

Answer: x = 75° (alternate angles)

8 Probability of an event not happening

The probability that it rains tomorrow is 0.2.

Work out the probability that this does not happen.

P(not) = 1 − P(event)

1 − 0.2 = 0.8

Answer: 0.8

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9 Money: wages

Priya earns £7 for each hour of work.
Priya works for 4 hours.
How much does Priya earn?

£7 × 4 = £28
Answer: £28

10 Tables of values

The table shows some values of x and y.
(a) Write down the value of y when x = 5.
(b) Write down the value of x when y = 9.

(a) Find 5 in the top row; the number underneath is 13
(b) Find 9 in the bottom row; the number above is 3
Answer: (a) 13 (b) 3