Day 79 **C Tier 10-a-day: Model Solutions**

1 Writing expressions

Simplify m × d

Write the number first, then the letters in alphabetical order, with no × signs

Answer: dm

2 Money: change

Amy buys a magazine for £3.40.
Amy pays with a £10 note.
How much change does Amy get?

Change = £10 − £3.40
1000p − 340p = £6.60

Answer: £6.60

3 Solving equations

Solve 5k = 20

5k means 5 × k, so divide both sides by 5
k = 20 ÷ 5 = 4

Answer: k = 4

4 Probability of an event not happening

The probability that a player scores a goal is 0.5.
Work out the probability that this does not happen.

P(not) = 1 − P(event)
1 − 0.5 = 0.5

Answer: 0.5

5 Reading a scale

The diagram shows part of a measuring scale.
Write down the reading shown by the arrow.

The labelled marks go up in 20. There are 4 small steps between labelled marks, so each small step is 20 ÷ 4 = 5.
The arrow is 1 small steps after 40.
40 + 1 × 5 = 45

Answer: 45 g

6 The range

Here are the ages of some children.
9 7 10 12 7 11
Work out the range.

Range = largest value − smallest value
12 − 7 = 5

Answer: 5

7 Time conversions

Change 120 seconds into minutes.

60 seconds = 1 minutes, so divide by 60: 120 ÷ 60 = 2

Answer: 2 minutes

8 Money: saving

Kiran wants to buy a game for £31.
Kiran has saved £20.
How much more does Kiran need?

£31 − £20 = £11

Answer: £11

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9 Perimeter from area

A rectangle has an area of 88 m^2.
Its width is 8 m.
Work out the perimeter of the rectangle.

Length = area ÷ width = 88 ÷ 8 = 11
Perimeter = 11 + 8 + 11 + 8 = 38
Answer: 38 m

10 Probability of not getting a colour

A bag contains 7 yellow sweets, 1 white sweets and 2 blue sweets.
One is taken at random.
Write down the probability that it is not yellow.

Number that are not yellow: 1 + 2 = 3
Total: 10

Probability = $\frac{3}{10}$

Answer: $\frac{3}{10}$