Day 303 **C Tier 10-a-day: Model Solutions**

1 Names of polygons

A polygon has 10 sides.
Write down the name of this polygon.

A shape with 10 sides is called a decagon
Answer: decagon

2 Rounding

Write 8420 to the nearest hundred.

Look at the tens digit, which is 2
2 is less than 5, so round down
Answer: 8400

3 Angles in a triangle (words)

Two of the angles in a triangle are 57° and 80°.
Work out the size of the third angle.

Angles in a triangle add up to 180°
57 + 80 = 137
180 − 137 = 43
Answer: 43°

4 Coordinates

Write down the coordinates of
(a) point A
(b) point R

Go across first (x), then up (y)
A is 4 across and 6 up
R is 7 across and 7 up
Answer: (a) (4, 6) (b) (7, 7)

5 Sampling

Harry wants to find out how much exercise people take.
Harry asks people leaving a gym.
Give a reason why this sample may be biased.

People at a gym are more likely to exercise a lot
Answer: People at a gym are more likely to exercise a lot

6 Multiplying multiples of 10

Work out 30 × 7.

Work out 3 × 7 = 21
Then put the zeros back on
Answer: 210

7 Two-way tables

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

Football column: 12 + 3 = 15
Answer: 15

Day 303 **C Tier 10-a-day: Model Solutions**

8 Fractions, decimals and percentages

Write 25% as a fraction in its simplest form.

25% = $\frac{25}{100}$

Simplify: divide the top and bottom by 25

= $\frac{1}{4}$

Answer: $\frac{1}{4}$

9 Substitution

Work out the value of 7(b + 8) when b = 7.

Brackets first: 7 + 8 = 15

7 × 15 = 105

Answer: 105

10 Types of triangle

A triangle has sides of length 8 cm, 8 cm and 8 cm.
What type of triangle is it?

All three sides are equal

Answer: equilateral