Day 115 **C Tier 10-a-day: Model Solutions**

1 Names of polygons

A polygon has 3 sides.
Write down the name of this polygon.

A shape with 3 sides is called a triangle
Answer: triangle

2 Rounding

Write 643 to the nearest ten.

Look at the units digit, which is 3
3 is less than 5, so round down
Answer: 640

3 Frequency tables

The table shows the number of goals scored by a team in each match.
Write down the mode.

The mode has the highest frequency, which is 12
This is for 2 goals
Answer: 2

4 Writing expressions

Gita is m years old.
Ravi is 6 years younger than Gita.
Write an expression for Ravi's age.

6 years younger means take away 6: $m - 6$
Answer: $m - 6$

5 Multiplying multiples of 10

Work out 50×30.

Work out $5 \times 3 = 15$
Then put the zeros back on
Answer: 1500

6 Bearings from compass points

Bearings are measured clockwise from north.
Write down the three-figure bearing of
(a) south-west
(b) north

North is 000°. Each compass point to the right (clockwise) is a further 45°.
(a) south-west is 225°
(b) north is 000°
Answer: (a) 225° (b) 000°

7 Inequalities

n is a whole number.
Write down all the possible values of n when
$-1 \leq n < 3$

n is at least -1 and smaller than 3
The smallest whole number is -1 and the largest is 2
Answer: $-1, 0, 1, 2$

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8 Simplifying fractions

Write $\frac{12}{28}$ in its simplest form.

Divide the top and bottom by 4

$\frac{12}{28} = \frac{3}{7}$

Answer: $\frac{3}{7}$

9 Perimeter of an L-shape

The diagram shows an L-shape.
All the corners are right angles.
Work out the perimeter of the shape.
The diagram is not drawn accurately.

Find the two missing sides.
Missing horizontal side: 6 − 3 = 3
Missing vertical side: 5 − 3 = 2
Add all six sides: 6 + 3 + 3 + 2 + 3 + 5 = 22
Answer: 22 m

10 Pie chart angles

24 students were asked about their favourite sport.
4 of them chose football.
The results are shown in a pie chart.
Work out the angle of the sector for those students.

360° ÷ 24 = 15° for each student
4 × 15° = 60°
Answer: 60°