Day 287 **C Tier 10-a-day: Model Solutions**

1 Multiplying and dividing by 10 and 100

Work out 0.7 × 100.

Multiplying by 100 moves each digit 2 places to the left

Answer: 70

2 Probability of an event not happening

The probability that a seed grows is $\frac{3}{10}$.

Work out the probability that this does not happen.

P(not) = 1 − P(event)

$1 - \frac{3}{10} = \frac{7}{10}$

Answer: $\frac{7}{10}$

3 Perimeter and area of a square

The perimeter of a square field is 20 m.
Work out the length of one side.

A square has 4 equal sides

20 ÷ 4 = 5

Answer: 5 m

4 Solving equations

Solve d − 8 = 11

Add 8 to both sides

d = 11 + 8 = 19

Answer: d = 19

5 Naming quadrilaterals

Write down the name of the quadrilateral that has exactly one pair of parallel sides.

The quadrilateral with exactly one pair of parallel sides is a trapezium

Answer: trapezium

6 Reading straight line graphs

The graph shows the cost of hiring a bike.
(a) Work out the cost of hiring the bike for 2 hours.
(b) Tara pays £40 to hire the bike. For how many hours does Tara hire it?

(a) Go up from 2 on the bottom axis to the line, then across: £20

(b) Go across from 40 on the cost axis to the line, then down: 4

Answer: (a) £20 (b) 4

7 Reading a pie chart

32 people were asked about their favourite sport.
The pie chart shows the results.
How many people chose Rugby?

The Rugby sector is a quarter of the pie chart

32 ÷ 4 = 8

Answer: 8

8 Estimation

Estimate the value of 78 − 43 by rounding each number to the nearest 10.

78 rounds to 80 and 43 rounds to 40

80 − 40 = 40

Answer: 40

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9 Cost from area

A rectangular lawn is 7 m long and 2 m wide.

Turf costs £6 per m^2.

Work out the cost of covering the lawn.

Area = $7 \times 2 = 14$ m^2

Cost = $14 \times £6 = £84$

Answer: £84

10 Place value

Write down the value of the digit 6 in the number 5076.

The digit 6 is in the units column

Answer: 6