Day 184 **C Tier 10-a-day: Model Solutions**

1 Tally charts

The tally chart shows the pets owned by some students.
Work out the total number of students.

Fish 10, Cat 8, Bird 9
10 + 8 + 9 = 27
Answer: 27

2 Time conversions

Change 28 days into weeks.

7 days = 1 weeks, so divide by 7: 28 ÷ 7 = 4
Answer: 4 weeks

3 Writing numbers in words

Write the number 2000 in words.

Split the number: 2000
Answer: two thousand

4 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 5. There are 5 small steps between labelled marks, so each small step is 5 ÷ 5 = 1.
The arrow is 2 small steps after 5.
5 + 2 × 1 = 7
Answer: 7 kg

5 Units of time

How many days are there in 6 weeks?

1 week = 7 days
6 × 7 = 42
Answer: 42

6 Reading a straight-line graph

The graph shows the cost of fabric.
Use the graph to find the length of fabric that can be bought for £32.

Go across from £32 on the vertical axis to the line, then down
Amount = 8 m
Answer: 8 m

7 Sequences

Here are the first four terms of a sequence.
4, 5, 9, 14
Each term is found by adding the two terms before it.
Write down the next two terms.

9 + 14 = 23
14 + 23 = 37
Answer: 23, 37

8 24-hour clock

Write 8:45 am using the 24-hour clock.

am times stay the same, with a zero in front if needed
20:45
Answer: 20:45

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9 Equations of lines

A straight line passes through the points
(5, 5), (5, 7), (5, 9)
Write down the equation of the line.

Every point has x-coordinate 5, so the line is vertical
Answer: x = 5

10 Cost from perimeter

A rectangular play area is 12 m long and 5 m wide.
Fencing costs £5 per metre.
Work out the cost of putting fence all the way round the play area.

Perimeter = 12 + 5 + 12 + 5 = 34 m
Cost = 34 × £5 = £170
Answer: £170