Day 328 **C Tier 10-a-day: Model Solutions**

1 Addition

Work out 285 + 440.

Add the hundreds, tens and units
285 + 440 = 725
Answer: 725

2 Cost of one item

9 pens cost £3.15.
Work out the cost of one pen.

315p ÷ 9 = 35p
Answer: 35p

3 Money: saving

Femi saves £2 each week.
How many weeks does it take to save £12?

£12 ÷ £2 = 6
Answer: 6 weeks

4 Area of a triangle

The diagram shows a triangle.
Work out the area of the triangle.
The diagram is not drawn accurately.

Area of a triangle = base × height ÷ 2
8 × 5 = 40
40 ÷ 2 = 20
Answer: 20 m^2

5 Number puzzles

Femi thinks of a number.
Femi divides it by 2.
The answer is 12.
What number did Femi think of?

Multiply 12 by 2
12 × 2 = 24
Answer: 24

6 Estimation

Estimate the value of 72 − 17 by rounding each number to the nearest 10.

72 rounds to 70 and 17 rounds to 20
70 − 20 = 50
Answer: 50

7 Currency conversion

£1 = €1.50
Change €45 into pounds.

45 ÷ 1.50 = 30
Answer: £30

8 Pattern sequences

The diagram shows the first three patterns in a sequence made by Priya.
Each pattern is made from dots.
How many dots are in Pattern 5?

Each pattern is a square: 1 × 1, 2 × 2, 3 × 3
Pattern 5 is 5 × 5 = 25
Answer: 25

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9 Angles between clock hands

The minute hand of a clock turns clockwise from the 11 to the 5.
Through what angle does it turn?

Each number gap on a clock is 360 ÷ 12 = 30°
From 11 to 5 is 6 gaps
6 × 30 = 180
Answer: 180°

10 Finding a missing value from the mean

The mean of three numbers is 4.
Two of the numbers are 4 and 7.
Work out the other number.

Total of all the numbers: 4 × 3 = 12
Total of those given: 4 + 7 = 11
12 − 11 = 1
Answer: 1