Day 161 **C Tier 10-a-day: Model Solutions**

1 Money: wages

Uzma earns £9 for each hour of work.
Uzma works for 4 hours.
How much does Uzma earn?

£9 × 4 = £36
Answer: £36

2 Length conversions

Change 3.5 cm into mm.

1 cm = 10 mm, so multiply by 10: 3.5 × 10 = 35
Answer: 35 mm

3 Money: change

Uzma buys a snack for £4.40.
Uzma pays with a £5 note.
How much change does Uzma get?

Change = £5 − £4.40
500p − 440p = 60p
Answer: 60p

4 Sequences

Here are the first four terms of a sequence.
1, 2, 3, 5
Each term is found by adding the two terms before it.
Write down the next two terms.

3 + 5 = 8
5 + 8 = 13
Answer: 8, 13

5 Completing a table

The table shows the ways 20 students travel to school.
Work out the number of students for Bus.

Add the known numbers: 3 + 2 + 3 = 8
20 − 8 = 12
Answer: 12

6 Writing expressions

Dev has p stickers.
Max has 6 more stickers than Dev.
Write an expression for the number of stickers that Max has.

6 more than p is p + 6
Answer: p + 6

7 Multiplying multiples of 10

Work out 30 × 4.

Work out 3 × 4 = 12
Then put the zeros back on
Answer: 120

8 Solving equations

Solve 7n = 77

7n means 7 × n, so divide both sides by 7
n = 77 ÷ 7 = 11
Answer: n = 11

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9 Probability of not getting a colour

A bag contains 1 white counters, 4 red counters and 8 yellow counters.
One is taken at random.
Write down the probability that it is not red.

Number that are not red: 1 + 8 = 9
Total: 13

Probability = $\frac{9}{13}$

Answer: $\mathbf{\frac{9}{13}}$

10 Perimeter from area

A rectangular garden has an area of 33 m^2.
Its width is 3 m.
Work out the perimeter of the garden.

Length = area ÷ width = 33 ÷ 3 = 11
Perimeter = 11 + 3 + 11 + 3 = 28
Answer: 28 m