Day 231 **C Tier 10-a-day: Model Solutions**

1 Reading a clock

Write down the time shown on the clock.

The minute hand points to 8, which is 8 × 5 = 40 minutes past, and the hour hand has passed the 10
The time is 10:40
Answer: 10:40

2 Money: wages

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

£9 × 9 = £81
Answer: £81

3 Writing expressions

Hugo is p years old.
Dev is 4 years younger than Hugo.
Write an expression for Dev's age.

4 years younger means take away 4: p − 4
Answer: p − 4

4 Metric units

Change 600 centimetres to metres.

1 m = 100 cm
600 ÷ 100 = 6
Answer: 6 m

5 Simplifying expressions

Simplify 7a + 3q + 3q + 3a

Collect the a terms: 7 + 3 = 10a
Collect the q terms: 3 + 3 = 6q
Answer: 10a + 6q

6 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
12 × 6 = 72
72 ÷ 2 = 36
Answer: 36 m^2

7 Two-way tables

The two-way table shows some information.
Work out the missing number, shown by ?

Children row: 14 + 6 = 20
Answer: 20

8 Circles with an approximate pi

A circle has a radius of 1 cm.
Work out its circumference.
Use π = 3.14

Diameter = 2 × 1 = 2 cm
Circumference = π × diameter = 3.14 × 2 = 6.28
Answer: 6.28 cm

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9 The nth term

The nth term of a sequence is n + 7.
Work out the 5th term of the sequence.

Put n = 5 into n + 7
5 + 7 = 12
Answer: 12

10 Cost of one item

8 tickets cost £5.60.
Work out the cost of one ticket.

560p ÷ 8 = 70p
Answer: 70p