Day 361 **C Tier 10-a-day: Model Solutions**

1 Types of angle

Write down the type of each angle.
Choose from: acute, right, obtuse, reflex.
(a) 90°
(b) 135°

(a) 90° is exactly 90°, so it is right
(b) 135° is between 90° and 180°, so it is obtuse
Answer: (a) right (b) obtuse

2 Sequences

Here are the first four terms of a sequence.
3, 8, 13, 18
Write down the next term.

The terms go up by 5 each time
18 + 5 = 23
Answer: 23

3 Two-way tables

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

Cat column: 18 + 14 = 32
Answer: 32

4 24-hour clock

Write 1:40 pm using the 24-hour clock.

Add 12 to the hour for pm times
13:40
Answer: 13:40

5 Formulae in words

Here is a rule to work out the fare for a taxi journey.
Fare (£) = 9 × number of miles + 6
Work out the fare for a journey of 5 miles.

Fare (£) = 9 × 5 + 6
= 45 + 6 = 51
Answer: £51

6 Time

A lesson starts at 2:50 pm.
It finishes at 3:35 pm.
How long does it last?

2:50 pm to 3:00 pm is 10 minutes
3:00 pm to 3:35 pm is 35 minutes
Add the parts together
Answer: 45 minutes

7 Relative frequency

A spinner is spun 25 times and lands on red 8 times.
Estimate the probability that it lands on red next time.
Give your answer as a decimal.

Relative frequency = $\frac{8}{25}$

8 ÷ 25 = 0.32
Answer: 0.32

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8 Missing side from area

A rectangular garden has an area of 77 cm^2.
Its width is 7 cm.
Work out its length.

Area = length × width
77 = length × 7
length = 77 ÷ 7 = 11
Answer: 11 cm

9 Timetables

The table shows the times of two buses.
Jo gets on Bus 1 at Ashby.
What time does Jo get to Cleve?

Read along the row for Cleve in the Bus 1 column
Answer: 09:55

10 Substitution into formulae

Use the formula F = 6a + 6b to work out the value of F when a = 9 and b = 7.

F = 6 × 9 + 6 × 7
= 54 + 42 = 96
Answer: F = 96