**Day 163** **C Tier 10-a-day: Model Solutions**

## 1 Reading a table

The table shows the ways some students travel to school.
How many more students for Walk than for Car?

Walk: 9 Car: 4
9 − 4 = 5
**Answer: 5**

## 2 Missing numbers

Find the missing number.
17 − ? = 10

17 − 10 = 7
**Answer: 7**

## 3 Reflection on a grid

The point P is drawn on the grid.
P is reflected in the line x = 3.
Write down the coordinates of the image of P.

P is (1, 5)
P is 2 squares to the left of the line, so the image is 2 squares to the right
x-coordinate: 3 + 2 = 5
**Answer: (5, 5)**

## 4 Solving equations

Solve 8c = 80

8c means 8 × c, so divide both sides by 8
c = 80 ÷ 8 = 10
**Answer: c = 10**

## 5 Currency conversion

£1 = €1.20
Change £80 into euros.

£80 × 1.20 = €96
**Answer: €96**

## 6 Types of angle

Write down the type of each angle.
Choose from: acute, right, obtuse, reflex.
(a) 290°
(b) 115°

(a) 290° is more than 180°, so it is reflex
(b) 115° is between 90° and 180°, so it is obtuse
**Answer: (a) reflex (b) obtuse**

## 7 Number puzzles

I think of a number.
I subtract 8.
My answer is 15.
What number did I think of?

Work backwards: add 8
15 + 8 = 23
**Answer: 23**

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## 8 Cost from area

A rectangular patio is 5 m long and 5 m wide.
Paving costs £8 per $m^2$.
Work out the cost of covering the patio.

Area = 5 × 5 = 25 $m^2$
Cost = 25 × £8 = £200
**Answer: £200**

## 9 Percentages of amounts

Work out 20% of 50.

20% = $\frac{1}{5}$, so divide by 5

50 ÷ 5 = 10
**Answer: 10**

## 10 Scatter graphs

Here is a scatter graph of temperature against height above sea level.
Describe the correlation.

As height above sea level increases, temperature decreases
This is negative correlation
**Answer: Negative correlation**