

Answer Key

Q1.

c) 100

Q2.

b) 26 cm

Q3.

5

Q4.

True

Q5.

a) 8 pencils

b) $48 \div 6 = 8$

Q6.

Area = Length $\times$ Width

Area = 12×7

Area = 84 cm^2

Q7.

a) Quiz + Puzzle participants

$$45 + 35 = \mathbf{80 \text{ students}}$$

b) Model exhibition participants

$$120 - 80 = \mathbf{40 \text{ students}}$$

c) Explanation:

First, the number of students who participated in the quiz competition and puzzle-solving activity was added together.

$$45 + 35 = 80 \text{ students}$$

Next, this total was subtracted from the total number of participating students.

$$120 - 80 = 40 \text{ students}$$

Therefore, **40 students participated in the mathematics model exhibition.**

Q8.

a) Perimeter

$$\text{Perimeter} = 2 \times (\text{Length} + \text{Width})$$

$$\text{Perimeter} = 2 \times (25 + 18)$$

$$\text{Perimeter} = 2 \times 43$$

$$\mathbf{\text{Perimeter} = 86 \text{ meters}}$$

b) Area

$$\text{Area} = \text{Length} \times \text{Width}$$

$$\text{Area} = 25 \times 18$$

$$\mathbf{\text{Area} = 450 \text{ square meters (m}^2\text{)}}$$

c) Explanation

Perimeter is important because it measures the total distance around the field. The farmer needs the perimeter to know how much fencing material is required to surround the entire field.

d) Explanation

Area is the amount of space inside the field, while perimeter is the distance around the boundary of the field.

In this example:

- Area = **450 m²** (space inside the field)
- Perimeter = **86 m** (distance around the field)

The area helps determine how much land is available for farming, while the perimeter helps determine the amount of fencing needed.