

Mathematics Sample

Solve each exercise showing the main steps.

Question 1. Basic operations

1. Compute $18 + 7$.
2. Find x such that $5x = 45$.

Solution:

1. $18 + 7 = 25$.
2. $5x = 45 \Rightarrow x = 9$.

Question 2. Geometry

1. What is the area of a rectangle with sides 4 cm and 9 cm?
2. A right triangle has legs 3 cm and 4 cm. Compute its hypotenuse.

Solution:

1. Area rectangle = $4 \times 9 = 36 \text{ cm}^2$.
2. Hypotenuse: $\sqrt{3^2 + 4^2} = 5 \text{ cm}$.