

Two sides of a triangle are 9 cm and 12 cm. If its semi perimeter is 14, find the third side.

- Question:**
- A. 6
 - B. 7
 - C. 8
 - D. 9

Answer:

$$S = 14 \text{ cm}, a = 9 \text{ cm}, b = 12 \text{ cm}.$$

$$S = \frac{a + b + c}{2}$$

$$14 = \frac{9 + 12 + c}{2}$$

$$14 \times 2 = 21 + c$$

$$28 = 21 + c$$

$$28 - 21 = c$$

$$c = 7 \text{ cm}$$

Hence, third side of a triangle is 7 cm
option (B)

