

CHAPTER-8 | Playing with Construction

QUIZ
PART-10

1. What is the length of line segment BC?

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 10 cm (C)

Explanation: Step (i) says to draw $BC = 6$ cm.

2. At which points are perpendiculars drawn?

- A. A and D
- B. B and C
- C. A and B
- D. C and D (B)

Explanation: Step (ii) says to draw perpendiculars at B and C.

3. Point A is marked on the perpendicular at B such that $BA =$

- A. 3 cm
- B. 4 cm
- C. 5 cm
- D. 6 cm (B)

Explanation: Step (iii) gives $BA = 4$ cm.

4. Point D is marked on the perpendicular at C such that $CD =$

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 8 cm (A)

Explanation: Step (iii) says $CD = 4$ cm.

5. Which line is joined in step (iv)?

- A. AC
- B. BD
- C. AD (C)
- D. BC

Explanation: Step (iv) clearly says to join AD.

6. After verification, AD is equal to:

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 10 cm (C)

Explanation: Step (v) says to verify that $AD = 6$ cm.

7. Which pair of opposite sides are equal to 4 cm?

- A. AB and DC
- B. BC and AD
- C. AC and BD
- D. AB and BC (A)

Explanation: The final step states $AB = DC = 4$ cm.

8. Which pair of opposite sides are equal to 6 cm?

- A. AB and DC
- B. BC and AD
- C. AC and BD
- D. AB and CD (B)

Explanation: The rectangle has $BC = AD = 6$ cm.

9. What is the measure of each angle of rectangle ABCD?

- A. 45°
- B. 60°
- C. 90°
- D. 120° (C)

Explanation: The chapter verifies that all four angles are 90° .

10. Why is ABCD a rectangle?

- A. All sides are equal
- B. Opposite sides are equal and all angles are 90°
- C. Only two sides are equal
- D. It has one right angle (B)

Explanation: A rectangle must have equal opposite sides and four right angles, which ABCD satisfies.