

CHAPTER-8 | Playing with Construction

QUIZ
PART-21

1. What is given in the construction problem?

- A. Side 3 cm and diagonal 7 cm
- B. Side 7 cm and diagonal 3 cm
- C. Two sides 3 cm and 7 cm
- D. Radius 7 cm only (A)

Explanation: The rectangle has one side of 3 cm and diagonal of 7 cm.

2. Which line segment is first drawn?

- A. $AB = 3$ cm
- B. $AC = 3$ cm
- C. $BD = 3$ cm
- D. $CD = 7$ cm (A)

Explanation: Construction starts by drawing AB equal to 3 cm.

3. Perpendicular lines are drawn at which points?

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

Explanation: Perpendiculars are drawn at both ends of AB.

4. What radius is used to draw arcs?

- A. 3 cm
- B. 4 cm
- C. 7 cm
- D. 10 cm (C)

Explanation: The radius is equal to the diagonal, which is 7 cm.

5. With A as centre, the arc intersects the perpendicular at:

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

Explanation: The arc from A gives point C on the perpendicular through B in the final rectangle.

6. With B as centre, the arc intersects the perpendicular at:

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

Explanation: The arc from B gives point D on the perpendicular through A.

7. Which points are joined at the last step?

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

Explanation: Joining D and C completes the rectangle.

8. What is the required figure?

- A. Square
- B. Rectangle
- C. Triangle
- D. Circle (B)

Explanation: The construction is for rectangle ABCD.

9. The construction is for rectangle ABCD.

- A. Compass
- B. Protractor
- C. Divider only
- D. Set square only (A)

Explanation: A compass is used to draw arcs of radius 7 cm.

10. In the final rectangle, the diagonal length is:

- A. 3 cm
- B. 5 cm
- C. 7 cm
- D. 10 cm (C)

Explanation: Both diagonals of the rectangle are constructed as 7 cm.