

CHAPTER-8 | Playing with Construction

QUIZ
PART-19

1. What is constructed in this question?

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

Explanation: The question clearly asks to construct a rectangle.

2. Into what angles does the diagonal divide the opposite angles?

- A. 50° , 40°
- B. 60° , 30°
- C. 45° , 45°
- D. 90° , 0° (C)

Explanation: The given condition is that the diagonal divides them into 45° and 45° .

3. What is the length of AB?

- A. 4 cm
- B. 5 cm
- C. 6 cm
- D. 7 cm (B)

Explanation: Step (i) says $AB = 5$ cm.

4. At which point is a perpendicular drawn to AB in Step (i)?

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

Explanation: The perpendicular to AB is drawn at point B.

5. What angle does AC make with AB at A?

- A. 30°
- B. 45°
- C. 60°
- D. 90° (B)

Explanation: Step (ii) says AC makes a 45° angle with AB.

6. Point C is the intersection of AC with the line drawn at B that is

- A. Parallel to AB
- B. Equal to AB
- C. Perpendicular to AB
- D. Bisecting AB (C)

Explanation: AC meets the perpendicular drawn at B at point C.

7. In Step (iii), the line drawn at A is

- A. Parallel to AB
- B. Perpendicular to AB
- C. Equal to AC
- D. Perpendicular to AC (B)

Explanation: The construction says to draw a line at A perpendicular to AB.

8. Which lengths are taken equal in the construction?

- A. $AB = AC$
- B. $AB = CD$
- C. $AD = BC$
- D. $AC = BD$ (C)

Explanation: Point D is marked so that $AD = BC$.

9. Which segment is joined last?

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

Explanation: The final step says to join CD.

10. What is the final observation about the sides?

- A. Opposite sides are unequal
- B. All sides are equal
- C. Only one side is longer
- D. No sides are equal (B)

Explanation: The chapter states that the sides become equal in length, so the figure is a square.