

CHAPTER-8 | Playing with Construction

QUIZ
PART-05

1. What is the length of AB in Question 1?

- A. 4 cm
- B. 6 cm
- C. 8 cm
- D. 10 cm (C)

Explanation : The figure and solution show that $AB = 8$ cm.

2. In Question 1, X is the midpoint of AB. What is AX?

- A. 2 cm
- B. 4 cm
- C. 6 cm
- D. 8 cm (B)

Explanation: Since $AB = 8$ cm and X is the midpoint,
 $AX = 8 \div 2 = 4$ cm.

3. What is the radius of the half circle in Question 1?

- A. 1 cm
- B. 2 cm
- C. 4 cm
- D. 8 cm (B)

Explanation: Raja Kisan aur Nagar Class 12th | Class 12
History Chapter 2 | Arjun Batch Class 12th History

4. In Question 2, what is the length of the central line AB?

- A. 8 cm
- B. 8 cm
- C. 10 cm
- D. 12 cm (C)

Explanation: The solution starts with $AB = 10$ cm.

5. In Question 2, X divides AB into:

- A. 2 cm and 8 cm
- B. 4 cm and 6 cm
- C. 5 cm and 5 cm
- D. 3 cm and 7 cm (C)

Explanation : Since $AB = 10$ cm, half of AB is 5 cm, so
 $AX = XB = 5$ cm.

6. Point C is marked on AX such that:

- A. $AC = CX = 2.5$ cm
- B. $AC = CX = 5$ cm
- C. $AC = 2$ cm, $CX = 3$ cm
- D. $AC = 1.5$ cm, $CX = 3.5$ cm (A)

Explanation : The chapter says C divides AX into two equal parts of 2.5 cm each.

7. Point D is marked on XB such that:

- A. $XD = DB = 5$ cm
- B. $XD = DB = 2.5$ cm
- C. $XD = 2$ cm, $DB = 3$ cm
- D. $XD = 1$ cm, $DB = 4$ cm (B)

Explanation : D divides XB into two equal parts, each 2.5 cm.

8. With C as centre and radius equal to AC, what is drawn?

- A. A full circle above AB
- B. A semicircle above AB
- C. A semicircle below AB
- D. A straight line above AB (B)

Explanation : The construction says to draw a semicircle above AB with centre C.

9. With D as centre and radius equal to XD, what is drawn?

- A. A semicircle above AB
- B. A full circle
- C. A semicircle below AB
- D. A triangle (C)

Explanation : The second semicircle is drawn below AB with centre D.

10. What is the radius of each semicircle in Question 2?

- A. 1 cm
- B. 2 cm
- C. 2.5 cm
- D. 5 cm (C)

Explanation : Since $AC = 2.5$ cm and $XD = 2.5$ cm, each semicircle has radius 2.5 cm.