

CHAPTER-8 | Playing with Construction

QUIZ
PART-03

1. What is drawn first in this construction?

- A. A circle
- B. A central line $AB = 8$ cm
- C. A triangle
- D. A triangle (B)

Explanation: Step (i) says to draw a central line AB of length 8 cm.

2. What is the length of AB ?

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

Explanation: The line segment AB is given as 8 cm.

3. Point X is marked on AB such that:

- A. $AX = 2$ cm, $XB = 6$ cm
- B. $AX = XB = 4$ cm
- C. $AX = 3$ cm, $XB = 5$ cm
- D. $AX = XB = 2$ cm (B)

Explanation: Step (ii) says X divides AB into two equal parts of 4 cm each.

4. Point C is marked on AX such that:

- A. $AC = 4$ cm
- B. $CX = 4$ cm
- C. $AC = CX = 2$ cm
- D. $AC = CX = 1$ cm (C)

Explanation: Step (iii) says C is marked so that AC and CX are both 2 cm.

5. Point D is marked on XB such that:

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

Explanation: Step (iii) gives $XD = DB = 2$ cm.

6. 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 rectangle above AB (B)

Explanation: Step (iv) says to draw a semicircle above AB with centre C .

7. 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 square (C)

Explanation: Step (iv) says to draw another semicircle below AB with centre D .

8. What is the radius of each semicircle in this construction?

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

Explanation: Since $AC = 2$ cm and $XD = 2$ cm, each semicircle has radius 2 cm.

9. Which pair of points divides AB into four equal parts?

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

Explanation: The points C and D create segments AC , CX , XD , and DB , each of 2 cm.

10. What is done in the final step to get the required wavy wave?

- A. Join C to D
- B. Draw one more line
- C. Erase all marked points
- D. Draw a circle at X (C)

Explanation: Step (v) says to erase all the marked points to get the final wavy wave.