

## CHAPTER-9 | Symmetry

QUIZ  
PART-02

1. What is a line of symmetry?

- A. A line that divides a figure into unequal parts
- B. A line that divides a figure into two matching parts
- C. A curved line inside a shape
- D. A line outside the figure (B)

**Explanation:** A line of symmetry divides a figure into two parts that exactly overlap when folded.

2. A line of symmetry divides a figure into

- A. two unequal parts
- B. three equal parts
- C. two matching parts
- D. many random parts (C)

**Explanation:** A line of symmetry cuts a figure into two parts that exactly overlap.

3. What happens when a symmetrical figure is folded along its line of symmetry?

- A. It breaks
- B. One half exactly covers the other
- C. It becomes bigger
- D. It changes color (B)

**Explanation:** The chapter says the two parts exactly overlap on folding.

4. The two matching parts formed by a line of symmetry are called

- A. equal angles
- B. mirror halves
- C. diagonals
- D. vertices (B)

**Explanation:** The text clearly calls them mirror halves.

5. Which example is used to explain symmetry in this part?

- A. Flower
- B. Bus
- C. Bottle
- D. Clock (A)

**Explanation:** The flower is shown along with the explanation of line of symmetry.

6. In the blue triangle example, the dotted line is

- A. a side
- B. a curve
- C. a line of symmetry
- D. a diameter (C)

**Explanation:** Folding along the dotted line makes one half cover the other half.

7. In figure (b) with puzzle pieces, are the two parts mirror halves?

- A. Yes
- B. No
- C. Sometimes
- D. Cannot say (B)

**Explanation:** The chapter says the left half does not exactly fit over the right half.

8. If two halves do not exactly fit on folding, then the line is

- A. a line of symmetry
- B. not a line of symmetry
- C. a radius
- D. a diameter (B)

**Explanation:** Exact overlap is necessary for a line to be a line of symmetry.

9. Which word best describes halves formed by a true line of symmetry?

- A. Rough
- B. Mirror
- C. Bent
- D. Open (B)

**Explanation:** The chapter uses the term mirror halves.

10. What small error is present in the assessment sentence?

- A. "symmetry" is misspelled
- B. "figure" is misspelled
- C. extra "1" is written
- D. "line" is missing (C)

**Explanation:** The sentence says "given 1 figure", where "1" seems unnecessary.