

## CHAPTER-6 | Triangles

### QUIZ PART-02

1. All circles are:

- A. Congruent
- B. Similar
- C. Both
- D. None (B)

*Explanation:* All circles are similar.

2. All squares are:

- A. Congruent
- B. Similar
- C. Both
- D. None (B)

*Explanation:* All squares are similar.

3. All \_\_\_\_\_ triangles are similar.

- A. Isosceles
- B. Equilateral
- C. Right-angled
- D. Scalene (B)

*Explanation:* All equilateral triangles are similar.

4. Two polygons are similar if:

- A. Corresponding angles are equal and sides proportional
- B. Angles proportional and sides equal
- C. Sides equal and angles proportional
- D. None (A)

*Explanation:* For similarity, angles must be equal and sides proportional.

5. Example of similar figures:

- A. Two squares of different sizes
- B. Two rectangles of same length and width
- C. A square and a rectangle
- D. None (A)

*Explanation:* Two squares are always similar.

6. Example of non-similar figures:

- A. Two triangles with equal angles
- B. A circle and a square
- C. Two equilateral triangles
- D. Two circles (B)

*Explanation:* A circle and a square are not similar.

7. Are quadrilaterals with sides 1.5 cm and 3 cm similar?

- A. Yes
- B. No
- C. Neither
- D. Both (A)

*Explanation:* They are similar because the sides are proportional.

8. Two triangles are similar if:

- A. They have the same area
- B. Sides proportional and angles equal
- C. Angles equal and sides equal
- D. None (B)

*Explanation:* Similar triangles have proportional sides and equal angles.

9. Which figures are similar?

- A. Two circles with different radii
- B. Two rectangles with different areas
- C. Two equilateral triangles of different sizes
- D. None (C)

*Explanation:* Two equilateral triangles are similar.

10. Are these quadrilaterals similar? (1.5 cm and 3 cm sides)

- A. Yes
- B. No
- C. It depends on angles
- D. Cannot be determined (A)

*Explanation:* The quadrilaterals are similar as their sides are proportional.