

CHAPTER-4 | Quadrilaterals

QUIZ
PART-20

1. A kite is formed here by joining two triangles with sides:

A. 6 cm, 9 cm, 12 cm
B. 8 cm, 8 cm, 6 cm
C. 4 cm, 5 cm, 6 cm
D. 3 cm, 4 cm, 5 cm (A)

Explanation : The slide shows triangles of sides 6 cm, 9 cm, and 12 cm.

2. In the kite shown, the equal adjacent sides are:

A. 6 cm and 6 cm
B. 6 cm and 9 cm
C. 9 cm and 12 cm
D. 12 cm and 12 cm (A)

Explanation: A kite has two pairs of adjacent equal sides.

3. In a kite, diagonal BD bisects:

A. $\angle ABC$ and $\angle ADC$
B. Only $\angle A$
C. Only $\angle C$
D. No angle (A)

Explanation: The given property says BD bisects these two angles.

4. In the kite, BD bisects diagonal AC, so:

A. $AO = OC$
B. $AB = BC$
C. $AD = DC$
D. $AO = BD$ (A)

Explanation: Bisecting AC means dividing it into two equal parts.

5. The diagonals of a kite intersect at:

A. 60°
B. 90°
C. 120°
D. 110° (B)

Explanation : Kite diagonals are perpendicular.

6. A trapezium is a quadrilateral with at least:

A. One pair of parallel opposite sides
B. All sides equal
C. All angles 90°
D. Equal diagonals always (A)

Explanation : This is the definition given in the chapter.

7. In trapezium PQRS, the angle property given is:

A. $\angle S + \angle P = 180^\circ$
B. $\angle S + \angle P = 90^\circ$
C. $\angle S = \angle P$
D. $\angle S + \angle P = 360^\circ$ (A)

Explanation : Co-interior angles on parallel sides add to 180° .

8. In the same trapezium, another angle relation is:

A. $\angle R + \angle Q = 180^\circ$
B. $\angle R + \angle Q = 90^\circ$
C. $\angle R = \angle Q$ always
D. $\angle R + \angle Q = 360^\circ$ (A)

Explanation : The chapter states $\angle R + \angle Q = 180^\circ$.

9. Which statement is true for every trapezium?

A. Diagonals are equal
B. One pair of opposite sides are parallel
C. All sides are equal
D. All sides are unequal (B)

Explanation : Every trapezium has at least one pair of parallel opposite sides.

10. The learning outcome of this part is:

A. Kite and Trapezium
B. Square only
C. Circle
D. Triangle area (A)

Explanation : This part introduces kite and trapezium properties.