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Chapter – 8 | Playing with Constructions

QUIZ-01

1. All the points that are at a fixed distance from a given point form a:
   A. Line B. Triangle
   C. Circle D. Angle (C)

Explanation : A circle is the set of all points at the same distance from its centre.

2. The fixed distance between the centre of a circle and any point on the circle is called the:
   A. Diameter B. Radius
   C. Chord D. Arc (B)

Explanation : The radius is the distance from the centre to the circle.

3. Which instrument is mainly used to draw circles of a given radius?
   A. Protractor
   B. Ruler
   C. Divider
   D. Compass (D)

Explanation : A compass is used to draw circles and arcs.

4. In a rectangle, which of the following statements is correct?
   A. All sides are equal
   B. Opposite sides are equal
   C. No angle is 90°
   D. All sides are unequal (B)

Explanation : In a rectangle, opposite sides are equal and all angles are right angles.

5. Which property is true for both a square and a rectangle?
   A. All sides are equal
   B. Opposite sides are unequal
   C. All angles are 90°
   D. Diagonals are perpendicular (C)

Explanation : Both squares and rectangles have all angles equal to 90°.

6. A square is rotated about its centre. After rotation, the figure becomes:
   A. A rectangle
   B. A rhombus
   C. A different shape
   D. Still a square (D)

Explanation : Rotation does not change the side lengths or angles of a square.

7. In a rectangle, the diagonals are:
   A. Unequal in length
   B. Equal in length
   C. Perpendicular to each other
   D. Parallel to each other (B)

Explanation : The diagonals of a rectangle are always equal in length.

8. When the diagonal of a rectangle divides the opposite angles into equal parts, the rectangle must be a:
   A. Rectangle B. Parallelogram
   C. Square D. Trapezium (C)

Explanation : Only in a square does a diagonal divide angles equally.

9. To locate a point that is at the same distance from two given points, we use:
   A. A ruler only
   B. A protractor
   C. Intersecting arcs using a compass
   D. Parallel lines (C)

Explanation : Intersecting arcs from both points give a point equidistant from them.

5. Which of the following figures has all sides equal but angles not equal to 90°?
   A. Square B. Rectangle
   C. Rhombus D. Triangle (C)

Explanation : A rhombus has all sides equal but angles are not right angles.

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