

CHAPTER-2 | Lines and Angles

QUIZ PART-07

1. When two lines intersect, what is formed at the point of intersection?
- A point
 - An angle
 - A line segment
 - A right angle

Explanation: When two lines intersect, they form an angle at the point of intersection.

2. If two lines are parallel, the angles formed by a transversal are:
- Alternate interior angles
 - Vertical angles
 - Adjacent angles
 - Acute angles

Explanation: When two parallel lines are cut by a transversal, alternate interior angles are formed, and they are congruent.

3. The sum of two complementary angles is:
- 180°
 - 90°
 - 360°
 - 270°

Explanation: Complementary angles always add up to 90° .

4. What is the measure of each angle when two perpendicular lines intersect?
- 45°
 - 60°
 - 90°
 - 180°

Explanation: When two lines are perpendicular, they form right angles (each measuring 90°).

5. What is the property of alternate interior angles when two parallel lines are cut by a transversal?
- They are equal
 - They are supplementary
 - They are complementary
 - They are acute

Explanation: Alternate interior angles are equal when two parallel lines are cut by a transversal.

6. Which of these angles are consecutive interior angles?
- Angles on opposite sides of the transversal
 - Angles on the same side of the transversal but outside the parallel lines
 - Angles on the same side of the transversal but between the parallel lines
 - None of the above

Explanation: Consecutive interior angles are the angles on the same side of the transversal and between the parallel lines.

7. The angles that are formed when two lines intersect are called:
- Complementary angles
 - Vertical angles
 - Alternate angles
 - Corresponding angles

Explanation: When two lines intersect, the opposite angles formed are called vertical angles, and they are always equal.

8. If a transversal intersects two parallel lines, the sum of consecutive interior angles is always:
- 180°
 - 90°
 - 360°
 - 120°

Explanation: When a transversal intersects two parallel lines, consecutive interior angles add up to 180° .

9. If two lines are cut by a transversal and corresponding angles are equal, the lines are:
- Parallel
 - Perpendicular
 - Intersecting
 - None of the above

Explanation: If the corresponding angles formed by the transversal are equal, the two lines are parallel.

10. The angle formed by the hour and minute hands of a clock at 3:00 is:
- 0°
 - 45°
 - 90°
 - 180°

Explanation: At 3:00, the hour and minute hands form a right angle (90°).