

CHAPTER-2 | Lines and Angles

QUIZ PART-18

1. How can you make a 30° angle using a protractor?
 A. Align the protractor at 0°
 B. Mark the 30° line and draw the line
 C. Place the protractor at 90°
 D. Use the 60° line to measure 30° (B)

Explanation : To create a 30° angle, align the protractor's center at the vertex and mark the 30° line, then draw a line from the vertex to the point.

2. What is the first step in drawing a 30° angle?
 A. Mark the 30° line
 B. Place the protractor at the vertex
 C. Draw a horizontal line
 D. Measure the angle with a ruler (B)

Explanation: The first step is to place the protractor's center at the vertex of the angle you want to measure.

3. In drawing a 30° angle, where should the protractor's center be placed?
 A. On the measuring scale
 B. On the angle's vertex
 C. On the top of the protractor
 D. On the horizontal line (B)

Explanation: The protractor's center should be placed exactly on the vertex of the angle to measure it accurately.

4. How do you make a 120° angle using a protractor?
 A. Use the 120° line on the protractor
 B. Mark 60° and double it
 C. Use the 180° line
 D. Add 90° and 30° together (A)

Explanation: To make a 120° angle, align the protractor with the vertex and mark the 120° line, then draw the line.

5. Which of the following steps is correct to create a 120° angle?
 A. Align the protractor at 90°
 B. Draw a straight line from the vertex
 C. Mark 120° and draw the line
 D. Use only the inner scale of the protractor (C)

Explanation : For a 120° angle, mark the 120° line on the protractor and draw a line from the vertex to the point.

6. How would you draw a 75° angle using a protractor?
 A. Mark 75° on the protractor and draw the angle
 B. Mark 45° first
 C. Add 30° and 45°
 D. Use the outer scale only (A)

Explanation : To create a 75° angle, place the protractor's center on the vertex, mark 75° on the scale, and draw the angle.

7. What angle can be formed using a 300° mark on a protractor?
 A. Acute angle
 B. Right angle
 C. Obtuse angle
 D. Reflex angle (D)

Explanation : A 300° angle is a reflex angle as it is greater than 180° but less than 360° .

8. When drawing a 210° angle, which protractor scale should be used?
 A. The inner scale for smaller angles
 B. The outer scale for larger angles
 C. The scale should be ignored
 D. Use both the inner and outer scales (B)

Explanation : For a 210° angle, use the outer scale of the protractor as it's a larger angle (more than 180°).

9. In Step 1 of drawing an angle, what is the first thing you do?
 A. Draw a line
 B. Measure the angle
 C. Place the protractor on the vertex
 D. Mark the angle with a ruler (C)

Explanation : In the first step, you place the center of the protractor on the vertex of the angle to be drawn.

10. What is the main purpose of using a protractor in drawing angles?
 A. To measure length
 B. To calculate area
 C. To measure and draw accurate angles
 D. To measure time (C)

Explanation : A protractor is primarily used to measure and draw angles accurately based on the degree measurements.