# Angles

## **Understanding the Topic**

- An angle is formed when two rays meet at a common point.
- The common point is called the vertex of the angle.
- The two rays are called the arms of the angle.
- Angles are measured in degrees (°).
- A full circle has 360°.

## **Types of Angles**

- Right Angle Exactly 90°.
- Acute Angle Less than 90°.
- Obtuse Angle More than 90° but less than 180°.
- Straight Angle Exactly 180°.



#### **Examples with Solutions**

1. Identify a right angle

The corner of a square or book page forms a right angle

**Answer:** Right angle = 90°

2. Identify an acute angle

A slice of pizza often forms an angle less than 90°



Answer: Acute angle < 90°

3. Identify an obtuse angle

The hands of a clock at 10:10 form an angle more than 90°

**Answer:** Obtuse angle > 90° and < 180°

4. Angle formed by a straight line

A ruler lying flat forms a straight angle

Answer: Straight angle = 180°

5. Identify a reflex angle

The larger angle between the hands of a clock at 4:00

It is more than 180°

**Answer:** Reflex angle > 180°

#### **Summary Points**

- An angle is made when two rays meet at a point.
- Angles are measured in degrees.
- Right angle = 90°, Acute < 90°, Obtuse > 90° < 180°, Straight = 180°, Reflex > 180°.
- Angles are used in shapes, clocks, and construction.
- **Example:** Corner of a square = right angle = 90°.