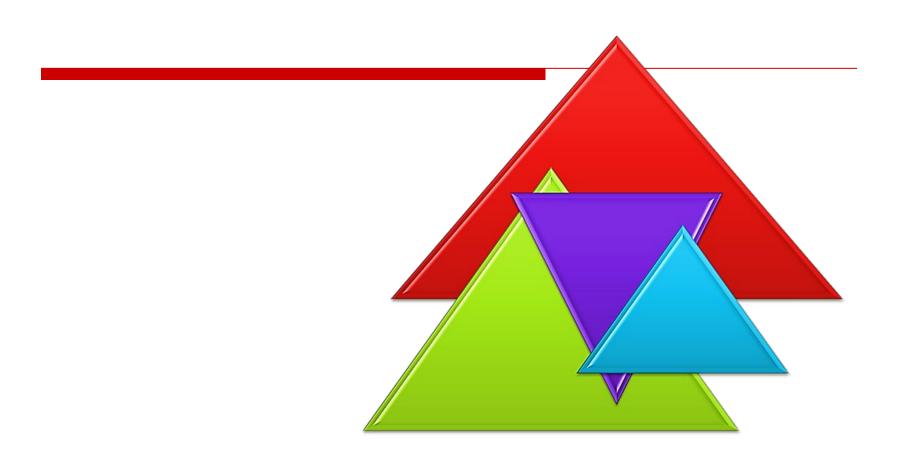
Angles and Triangles

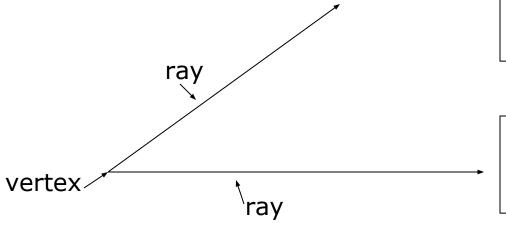


Presentation plan

- Angles
- ▲ Types of Angles
- Straight Angle
- ▲ Types of Triangles
- ▲ Interior Angles
- **▲**Measuring Angles

Angles

 A shape formed by two rays sharing a common endpoint; contains two rays and a vertex



vertex—point common to two rays of a triangle or two sides of a polygon

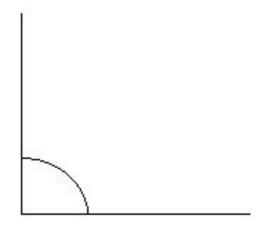
ray—has one endpoint and goes infinitely in one direction

Types of Angles

□ Acute angle: An angle whose measure is greater than zero degrees and less than 90 degrees

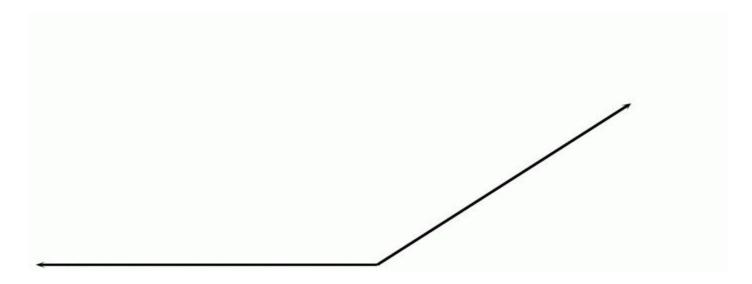
Types of Angles

□ Right angle: Angle that measures 90 degrees



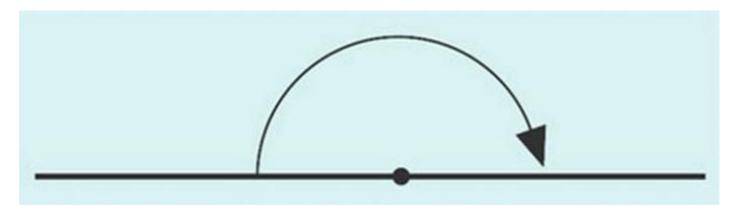
Types of Angles

Obtuse angle: One angle measures greater than 90 degrees and less than 180 degrees



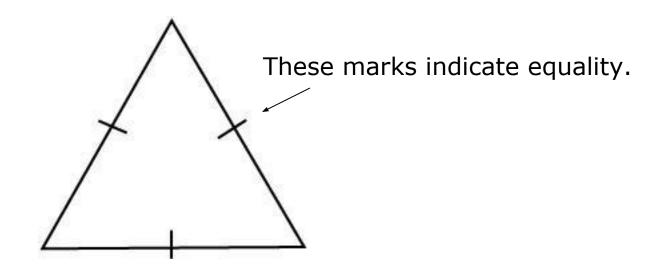
Straight Angle

■ Straight angle: A line that goes infinitely in both directions and measures 180 degrees

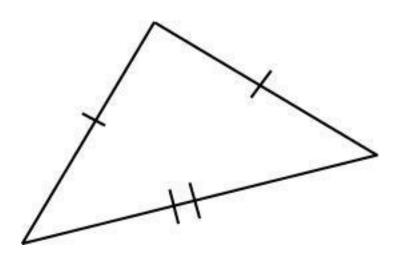


This is a ray. It only goes in one direction.

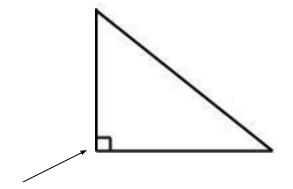
Equilateral triangle: A triangle with three congruent (equal) sides and three equal angles



■ Isosceles triangle: A triangle with at least two congruent (equal) sides

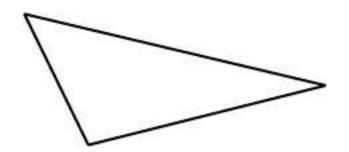


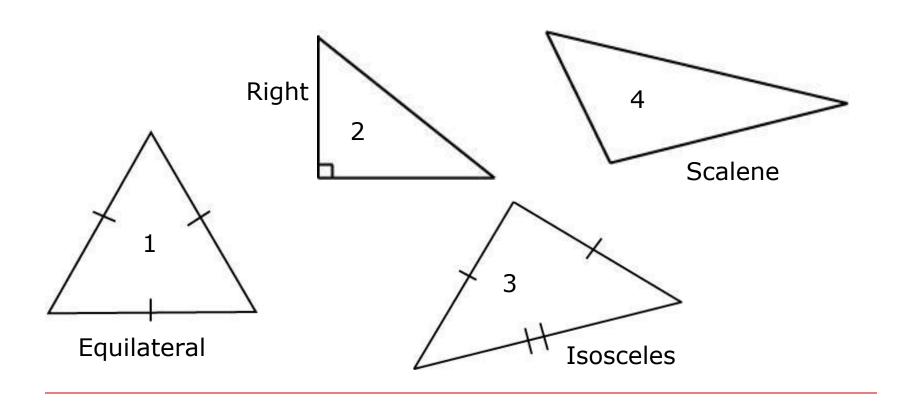
■ Right triangle: Has only one right angle (90 degrees)



This box indicates a right angle or a 90-degree angle.

□ Scalene triangle: A triangle that has no congruent (equal) sides





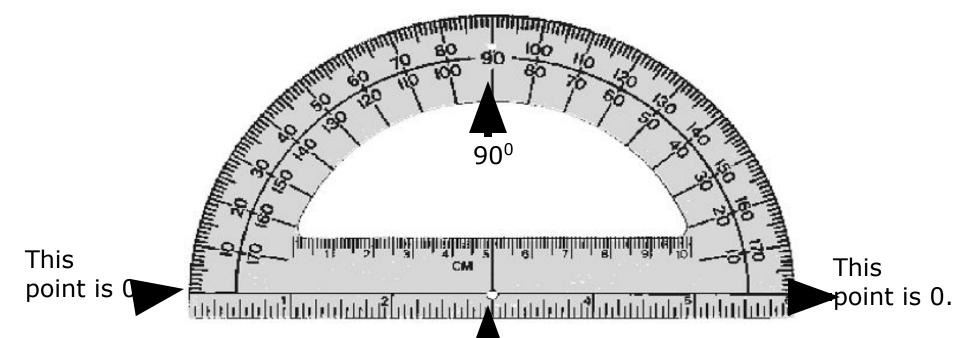
Interior Angles

- Interior angles: An interior angle (or internal angle) is an angle formed by two sides of a simple polygon that share an endpoint
- Interior angles of a triangle always equal 180 degrees.

Measuring Angles

You measure angles with a protractor.

Notice there are two scales. Be careful which 0 you start at.



This point goes at the vertex of the angle

Vocabulary

Vertex-вершина Ray-луч Acute angle-острый угол Right angle-прямой угол Obtuse angle-тупой угол Straight angle-развернутый угол Equilateral triangle-равносторонний треугольник Isosceles triangle-равнобедренный треугольник Right triangle-прямоугольный треугольник Scalene triangle-разносторонний треугольник Interior angles-внутренние углы Protractor-транспортир

☐ Thank you for your attention!