

Inscribed Angles

An inscribed angle is an angle whose vertex lies on the circle and whose sides intercept an arc of the circle.

Key rule:

The measure of an inscribed angle is half the measure of its intercepted arc.

Formula:

Inscribed Angle = $\frac{1}{2} \times$ Arc Measure

Example:

If the arc measures 100° , the inscribed angle measures 50° .

Quiz

1. What is an inscribed angle?
2. Where is the vertex of an inscribed angle located?
3. If an arc measures 80° , what is the inscribed angle?
4. True or False: Inscribed angles measure half their intercepted arcs.
5. Find the arc measure if the inscribed angle is 35° .

Answer Key

1. An angle formed by two chords with its vertex on the circle.
2. On the circle.
3. 40°
4. True
5. 70°