

















What's the relationship between congruent chords and the central angles formed using their endpoints?

If two chords in a circle are congruent, then they determine





What's the relationship between congruent chords and the arcs formed between their endpoints (intercepted arcs)?

If two chords are congruent, then their intercepted arcs are





What's the relationship between congruent chords and their distance from the center?

Two congruent chords in a circle ____





What does a perpendicular from the center of a circle do to an intersecting chord?

The perpendicular from the center of a circle to a chord





If a segment is coming from the center of a circle and bisects a chord, what relationship do they have with each other?

A segment coming from the center and bisects a chord



1) w = -?-





Chord Properties

3) *Z* = -?-



4) AB = CDPO = 8 cmOQ = -?-



Chord Properties

5) AB = 6 cm OP = 4 cm CD = 8 cm OQ = 3 cm BD = 6 cmWhat is the perimeter of *OPBDQ*?



Relationship between central angles and intercepted arcs



The measure of a central angle and the arc made from its endpoints (intercepted arc) are the _____

Relationship between inscribed angles and central angles



Relationship between inscribed angles that share the same arc.

Investigation: Inscribed Angles 2



Inscribed angles that share the same _____ arc are _____

Observations of a right inscribed angle



Investigation: Inscribed Angles 3

Angles inscribed in a semicircle are _

Quadrilaterals inscribed in a



Investigation: Inscribed Angles 4

<u>Cyclic Quadrilateral Theorem</u>

angles in a cyclic

quadilateral are



Parallel lines intercept _____ arcs on a circle.

Inscribed Angle Properties

6) *a* = -?-





Inscribed Angle Properties

8) C = -?-



9) d = -?e = -?-



Inscribed Angle Properties





DOWN is a kite. y = -?-