

Secondary Math 2 Honors

Name _____

Quadrilaterals, Circles and Arcs – Key Concepts

Day 1 Polygon Angle Sums and Properties of Parallelograms

1. The sum of the measures of the _____ angles of an n -gon is _____.
(See page 593)
2. The measure of each interior angle of a regular n -gon is _____. (See page 594)
3. The sum of the measures of the _____ angles of a polygon, one at each vertex, is _____. (See page 596)
4. If a quadrilateral is a _____, then:
 - a. its opposite _____ are congruent (See page 600)
 - b. its consecutive angles are _____ (See page 601)
 - c. its opposite angles are _____ (See page 602)
 - d. its diagonals _____ each other (See page 602)
5. The _____ of each of the statements in #4 is also true. (See pages 610-612)
6. If one pair of opposite sides of a quadrilateral is both _____ and _____, then the quadrilateral is a _____. (See page 613)

Day 2 Properties of a Rhombus, Rectangle and Square

1. A _____ is a parallelogram with four congruent sides. (See page 619)
2. A _____ is a parallelogram with four right angles. (See page 619)
3. A _____ is a parallelogram with four congruent sides and four right angles.
(See page 619)
4. Every square is also a _____ and a _____. (See page 620).
5. If a parallelogram is a _____, then:
 - a. its diagonals are _____ (See page 621)
 - b. each _____ bisects a pair of opposite angles (See page 621)
6. If a parallelogram is a _____, then its _____ are congruent. (See page 622)
7. The _____ of the statements in #5 and #6 are also true. (See pages 628-629)

Day 3 Circles, Angles, Arcs and Area

1. A _____ is the set of all points equidistant from a given point called the _____. You _____ a circle by its center. (See page 797)
2. A _____ is a segment that contains the _____ of a circle and has both endpoints on the _____. A _____ is a segment that has one endpoint at the _____ and the other endpoint on the _____. (See page 797)
3. A _____ is an angle whose _____ is the center of the circle. (See page 797)
4. An _____ is part of a circle. One type of arc, a _____, is half of a circle. A _____ arc is _____ than a semicircle. A _____ arc is _____ than a semicircle. (See page 797)
5. You name a minor arc by its _____ and a major arc or a semicircle by its endpoints and another _____ on the arc. (See page 797)
6. The _____ of a minor arc is equal to the measure of its corresponding _____. (See page 798)
7. The _____ of a circle is _____ or _____. The _____ of an arc of a circle is _____. (See pages 800 and 802)
8. The _____ of a circle is _____. The area of a _____ of a circle is _____. (See pages 807 and 809)

Day 4 Tangent Lines and Inscribed Angles

1. If a line is _____ to a circle, then the line is _____ to the _____ at the point of _____ and vice versa. (See pages 818 and 821)
2. If two tangent segments to a circle share a common _____ outside the circle, then the two segments are _____. (See page 823)
3. An _____ is an angle whose _____ is on the circle and whose sides are _____ of the circle. (See page 839)
4. An _____ is an arc with endpoints on the sides of the inscribed angle and its other points in the _____ of the angle. (See page 839)
5. The _____ of an inscribed angle is _____ the measure of its intercepted arc. (See page 839)