**Chapter 10 “I Can” Statements (with sections 11.5 & 12.6)**

You can use these statements as a study guide. You should focus your study time on the items where you circled “not sure.” Studying for math includes reviewing notes *and* trying additional problems. (Remember that the answers to odd problems are in the back of the book. Don’t forget that there are practice tests for this chapter and practice quizzes for each section at the textbook’s website: <http://www.geometryonline.com>.)

Circle one Statement

Yes or Not Sure I can name circles, radii, diameters, and chords correctly (using appropriate symbols).

Yes or Not Sure I can state two formulas for the circumference of a circle.

Yes or Not Sure I can find radius, diameter, and circumference if I am given any one of those measurements.

Yes or Not Sure I can name minor and major arcs correctly (using appropriate symbols).

Yes or Not Sure I can find the measure of an arc from its central angle and vice versa.

Yes or Not Sure I can (still) find the measures of vertical angles and linear pairs (from ch. 1).

Yes or Not Sure I can use information in a diagram to label missing arcs.

Yes or Not Sure I can find the length of an arc (arclength) using either a proportion or a formula.

Yes or Not Sure I can draw a diagram in which a polygon is inscribed in a circle.

Yes or Not Sure I can find the measure of each arc formed when a regular polygon is inscribed in a circle.

Yes or Not Sure I can find the lengths of chords that are equidistant from the center of a circle.

Yes or Not Sure I can draw a diagram showing the distance of a chord to the center of a circle, and I can place a radius in the diagram to form a right triangle.

Yes or Not Sure I can use the measures of the arcs in a circle to find the measure of an inscribed angle.

Yes or Not Sure I can use the corollaries of the inscribed angle theorem to solve problems involving inscribed triangles and quadrilaterals.

Yes or Not Sure I can find a missing arc of a circle by subtracting from 360 degrees.

Yes or Not Sure I can (still) find a missing angle of a triangle by subtracting from 180 degrees.

Yes or Not Sure I can (still) find the missing side of a right triangle using the Pythagorean Theorem.

Yes or Not Sure I can add a right angle symbol to a diagram at the point where a tangent line intersects a radius.

Yes or Not Sure I can use the Pythagorean Theorem to decide whether a line segment is tangent to a circle.

Yes or Not Sure I can find the lengths of tangent line segments using the “ice cream cone effect.”

Yes or Not Sure I can recognize tangent line segments whenever a circle is circumscribed by a polygon.

Yes or Not Sure I can (still) square a binomial correctly using the distributive property (a.k.a. FOIL). For example, I can show how (x + 3)2 is equal to x2 + 6x + 9.

Yes or Not Sure I can find measures of angles formed by lines intersecting on, inside, or outside a circle.

Yes or Not Sure I can work backwards (by solving equations) to find missing arcs when lines intersect to form angles whose vertices are on, inside, or outside a circle.

Yes or Not Sure I can use areas to calculate geometric probability as a fraction, a decimal, or a percent.

Yes or Not Sure I can calculate the area of a sector or a segment of a circle.

Yes or Not Sure I can (still) find missing sides of a 45-45-90 or a 30-60-90 triangle.

Yes or Not Sure I can calculate the surface area or lateral area of a cone.

Yes or Not Sure I can find the slant height of a cone given the surface area and the radius by solving an equation.

Yes or Not Sure I can draw a right triangle that connects a cone’s height, slant height, and radius of the base.

Yes or Not Sure I can find the lengths of segments of chords that cross inside a circle.

Yes or Not Sure I can find the lengths of segments of lines that cross outside a circle.

Yes or Not Sure I can recognize a quadratic equation, write it in standard form, and use the quadratic formula to find a solution that is reasonable in the context of geometry.

Yes or Not Sure I can write the equation of a circle in standard form given its radius and center point.

Yes or Not Sure I can graph a circle given its equation in standard form.