**Chapter 12 & 13 “I Can” Statements (sections 12.1-12.4, 12.7, 13.1-13.4)**

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 these chapters 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 3-dimensional solids correctly.

Yes or Not Sure I can tell the difference between a polyhedron and a non-polyhedron.

Yes or Not Sure I can determine whether a polyhedron counts as a regular polyhedron.

Yes or Not Sure I can identify the shape of a cross-section of a 3-dimensional solid.

Yes or Not Sure I can draw a diagram of a 3-dimensional solid if one is not provided in a problem.

Yes or Not Sure I can name the faces, edges, and vertices of a given polyhedron.

Yes or Not Sure I can draw and label a net of a given polyhedron.

Yes or Not Sure I can use the net of a polyhedron to calculate its surface area.

Yes or Not Sure I can identify the base(s) of a given prism, pyramid, cylinder, or cone.

Yes or Not Sure I can explain the difference between lateral area and surface area.

Yes or Not Sure I can write the formula for the surface area (or lateral area) of a prism.

Yes or Not Sure I can write the formula for the surface area (or lateral area) of a cylinder.

Yes or Not Sure I can write the formula for the surface area of a sphere or a hemisphere.

Yes or Not Sure I can use the formulas correctly to solve problems involving surface/lateral area.

Yes or Not Sure I can identify a great circle of a sphere.

Yes or Not Sure I can explain the relationship between the area of a great circle and the surface area of a sphere.

Yes or Not Sure I can find the radius of a sphere if I know the circumference of a great circle.

Yes or Not Sure I can explain the difference between surface area and volume.

Yes or Not Sure I can write the formula for the volume of a prism or a cylinder.

Yes or Not Sure I can write the formula for the volume of a pyramid or cone.

Yes or Not Sure I can write the formula for the volume of a sphere.

Yes or Not Sure I can use these formulas correctly to solve problems involving volume.

Yes or Not Sure I can correctly identify the height of a solid, even when it is on its side.

Yes or Not Sure I can identify oblique prisms, cylinders, cones, and pyramids and find their volumes.

Yes or Not Sure I can explain what similar solids are.

Yes or Not Sure I can use measurements to determine whether two solids are similar, congruent, or neither.

Yes or Not Sure I can use the scale factor of two similar solids to find the ratio of their surface areas or volumes.

Yes or Not Sure I can (still) explain what scale factor is and find the scale factor in a problem that requires it.

Yes or Not Sure I can (still) use known ratios to set up proportions in order to find a missing measurement.

Yes or Not Sure I can (still) find areas of 2-dimensional shapes (triangle, trapezoid, circle, etc.) using formulas.

Yes or Not Sure I can (still) find missing sides of right triangles using the Pythagorean Theorem, special right triangles (45-45-90 or 30-60-90), and trigonometry (SohCahToa).