Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Final Exam Review

**Important Facts about the Final Exam:**

1. You must bring your own calculator to the exam. Sharing of calculators during the exam is prohibited. Using your cell phone as a calculator is prohibited too!!

2. Bring plenty of #2 pencils to fill out the Scantron answer sheet.

3. The test has approximately:

* 24 multiple-choice questions. The answers for these questions will go on a Scantron.

The work for these question will not be looked at.

* 6 open-response questions where you write your answers on an answer sheet. Your work will be looked at on these questions
* You may use the formula sheet provided for you (MCAS sheet with a bit added to the

bottom)

4. You have 90 minutes to take the exam. You will not be allowed to leave the room once the exam has begun and must stay in the room for the entire 90 minutes. No extra time will be provided unless you have an IEP or a 504 and make arrangements with me before the exam. If you miss the exam or are late because you overslept, forgot, car wouldn’t start… you will not be given extra time or a retake. You will be given a 0.

5. The exam will count as 20% of your second semester grade. (That’s 10% of your final grade!)

**Suggestions for How to Study:**

1. Do all of the problems in the review packet.
2. Review old mini quizzes, co-checks and tests. Redo the problems that gave you trouble.
3. Read the chapter summaries. Remember, we didn’t do every section of every chapter, so they may contain extra information.
4. Review topics covered on the back of this sheet. You will see them on the exam!
5. Come for extra help on material you don’t understand!!!

**Chapters & Sections covered on the exam:**

Chapters Sections Chapter Summary

5 5-6 p. 341-344

6 6-1, 6-2, 6-5 p. 420-424

7 7-1, 7-2, 7-3 p. 480-482

8 8-1, 8-2, 8-3, 8-4 p. 534-536

9 9-6 p. 602-606

10 10-1, 10-2, 10-5, 10-6, 10-7, 10-8 p. 676-680

11 11-2, 11-3, 11-4, 11-5, 11-6 p. 751-754

**Chapter 5:**

* Opposite Parts Theorem
* Triangle Inequality Theorem

**Chapter 6:**

* Sum of the interior angles of a polygon
* Sum of the exterior angles of a polygon
* Relationship between an exterior and its interior angle
* Properties of a parallelogram
* Properties of a rhombus
* Properties of a rectangle

**Chapter 7:**

* Solve proportions with the distributive property
* Solving word problems with proportions
* Solve proportions with similar triangles
* Identify similar triangles and state why

**Chapter 8:**

* Use the Pythagorean Theorem
* Use the Pythagorean Theorem Converse
* Apply the 30-60-90 shortcut to triangles
* Apply the 45-45-90 shortcut to triangles
* Right triangle trigonometry
  + Write ratios using Soh Cah Toa
  + Solve for missing sides and angles
  + Angles of elevation & depression

**Chapter 9:**

* Dilations and scale factor

**Chapter 10:**

* Areas:
  + Kite
  + Circle
  + Triangle
  + Trapezoid
  + Rhombus
* Arc length & Area of Sector
* Circumference of a circle
* Geometric Probability

**Chapter 11:**

* Surface Area and Volume
  + Prism
  + Cylinder
  + Pyramid
  + Cone
  + Sphere