

## Geometry

**Credits:** 1

**Prerequisite:** Algebra 1

**Recommended:** 9th, 10th

**Test Prep: SAT, PSAT (The new SAT, 2016, will have less geometry on it than it currently does.)**

**Course Description:** This high school geometry course moves students from the basic principles of geometry through more advanced topics such as fractals. Students learn through textbooks, videos, practice, investigations, and online interactives. SAT prep is included with daily algebra and geometry SAT questions. Students will also use an online graphing calculator and complete exams including a midterm and a final. Topics covered in this course include: points, lines, planes, angles, proving theorems with deductive and inductive reasoning, parallel and perpendicular lines and planes, angle relationships, the equations of lines and slopes, types of triangles, properties of segments and angles, properties of congruent triangles, polygons, quadrilaterals, parallelograms, rhombi, rectangles, squares, kites, trapezoids, ratios and proportions, similarity, dilations, Pythagorean Theorem and its converse, the Law of Sines, the Law of Cosines, properties of circles and their tangent lines, arcs, inscribed angles and chords; equations and graphs of circles, perimeter and area of triangles, quadrilaterals, polygons, and circles; surface area and volume of prisms, cylinders, pyramids, cones, and spheres; symmetry, and transformations.

**Materials:** [protractor](#), [ruler](#), drawing compass, drawing paper, [graph paper](#)

**Notes:** If you are having problems with the textbook loading, first try reloading the page. If that doesn't work, try a different browser.

When you score your answers to the review questions, always count up and record how many you got right. Don't subtract the number wrong off the total given. Every problem is worth one point unless otherwise stated. You may grant partial credit for a multi-part problem.

### Lesson 1(\*) (Note that an asterisk \* indicates that there is a worksheet on this day)

1. (\*) Print out your first quarter [grading sheet](#) or use the [Excel](#) version.
2. What is [geometry](#)? Read the intro on the first page and then click on A and B. On each page do the interactive activity.
3. Complete part C, [folding paper](#). Follow the directions. Go through questions C1 and C2. You don't have to do the other sections, just this first page.
4. Here's an intro to the first topic, [points, lines and planes](#). Remember that when we say something is 2D or 3D, the D stands for dimensional. A 2D object has two dimensions: height and width. A 3D object has three dimensions: height, width and depth.
5. Read, do the review queue questions, check your answers at the bottom of the page, go through the examples and solutions carefully. Stop when you get to "Beyond the Basics." [1.1 Geometry – Points, Lines, and Planes](#).

### Lesson 2

1. Start at "Beyond Basics." Read and go through the examples and solutions carefully. Stop when you get to "Further Beyond." [1.1 Geometry – Points, Lines, and Planes](#)
2. Scroll down to the review questions and do the first 5.
3. Check your [answers](#).

### Lesson 3

1. Complete this page on [definitions and proof](#). Read, do C1, and then watch the video.
2. Start at "Further Beyond." Read and go through the examples and solutions carefully. Whenever it gives you a postulate, or a theorem, write it down. You should make a list of them. [1.1 Points, Lines, and Planes](#)
3. Do the review questions after the first 5.
4. Check your Geometry 1.1 [answers](#).

### Lesson 4

1. Read and watch about [line segments](#).
2. Scroll down and begin reading with "The Ruler Postulate." [Segments and Distance 1.2](#) Read through carefully.
3. Do "Review Questions" 5 – 25. Pay attention to what numbers I tell you to do, so you don't end up doing too many. Sometimes I'll say do the even or odd numbered problems. Read the directions carefully each day.

4. Check your Geometry 1.2 [answers](#).
5. Record your score out of 20. (Chance for one point of extra credit.)

### Lesson 5

1. Do the review queue problems. Read through the material and try the examples. Stop when it gives you a link to an animation for constructing with a protractor. [Angles and Measurement 1.3](#)
2. Use the link and use the [interactive protractor](#) to measure the angle.
3. Scroll down to the end of the lesson in order to check your answers.
4. Record your score as a 5 minus 1 point for each incorrect answer.

### Lesson 6

1. Start with Marking Angles and Segments in Diagrams. [Angles and Measurement 1.3](#)
2. Read through to the end and do the review questions.
3. Check your Geometry 1.3 [answers](#).

### Lesson 7

1. Read through the next chapter. Do the review queue and work through the examples. [1.4 Midpoints and Bisectors](#)
2. Use the links on the page to see the [line bisection](#) and the [angle bisection](#).
3. Check your review queue answers by scrolling to the bottom.
4. Record your score as a 5 minus 1 point for each incorrect answer.

### Lesson 8

1. Go through this quick review on [finding midpoints](#).
2. Scroll down, down, down and do these review questions: 1-18, evens 20 – 36. If you want to try them, you can get a point of extra credit for any challenge question you get right. [1.4 Midpoints and Bisectors](#).
3. Check your Geometry 1.4 [answers](#).
4. Record your score out of 27.

### Lesson 9

1. Review [angle measurement](#).
2. Do the review queue and read through the lesson, doing the examples. Always write down theorems and postulates. [1.5. Angle Pairs](#)
3. Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.

### Lesson 10

1. Scroll down, down, down and do these review questions: 1- 15, 16 – 30 even. There are 23 problems. [1.5. Angle Pairs](#)
2. Check your Geometry 1.5 [answers](#).
3. Record your score out of 22.

### Lesson 11

1. Do the review queue and read the lesson. Work through the examples. Stop after you have looked through the classifying shapes chart.
  - [1.6. Classifying Polygons](#)
2. Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.

### Lesson 12

1. Review [polygons](#).
2. Scroll down, down, down and do the review questions. The last one is optional, for extra credit.
  - [1.6. Classifying Polygons](#)
3. Check your Geometry 1.6 [answers](#).
4. Record your score out of 35.

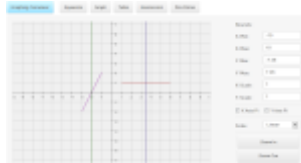
### Lesson 13

1. Review the terms.
2. Complete the questions as a test. Do not look up answers.
  - [1.7. Chapter 1 Review/test](#)
3. Check your [answers](#), Geometry 1.7.
4. Record your score out of 15.

- Go back through your review questions for sections 1.1 – 1.6. Try problems you had trouble with. Make sure you understand.

### Lesson 14

- Practice [angle pairs](#).
- Open this online [graphing calculator](#).
- Choose graphing calculator.
- When you are working, don't click on the "graphing calculator" button. It will take you back to the home screen.
- Use the equations button to enter an equation that will draw a horizontal segment. Type the equation on the line. Use the greater than/less than spots under the equation to limit the line to a segment.
- Draw a perpendicular bisector to your segment.
- Draw a diagonal segment.
- Draw a bisector to your segment.



- Here's my example. Click to enlarge.

### Lesson 15\*

- Watch the video, [inductive reasoning](#). \*Print this [worksheet](#) to complete as you watch the video.

### Lesson 16

- Review inductive reasoning by going through the examples. You can skip the queue questions today.
  - [2.1. Inductive Reasoning](#)
- Do the *odd* numbered questions in the review questions section.
- Check your [answers](#), Geometry 2.1.
- ANSWER CORRECTION FOR #9 Highlight here for the answers: ( )
- Record your score out of 15.

### Lesson 17

- [2.2. Conditional Statement](#)
  - Do only number 4 from the "queue."
  - Read through and try the examples before you read the solutions.
  - Stop at "Biconditional Statements."
  - Do the first 9 review questions.
- Check your [answers](#), Geometry 2.2.
- Record your score out of 9.

### Lesson 18

- [2.2. Conditional Statement](#)
  - Read through the rest of the chapter and try the examples before you read the solutions.
  - Start at "Biconditional Statements."
  - Do the review questions starting at number 10.
- Check your [answers](#), Geometry 2.2.
- Record your score out of 20.

### Lesson 19\*

- Learn some math logic with math!
  - Watch the video, [deductive reasoning](#). \*Print this [worksheet](#) to complete as you watch the video.
- [2.3. Deductive Reasoning](#)
  - Do the review queue.
  - Check your answers at the bottom of the page.
  - As always record your score as a 5 minus 1 point for each incorrect answer.
  - Start reading through the page.
  - Figure out your answer to the tiger/lady dilemma.

- Stop at "The Law of Detachment."
- Scroll down to right above the review questions and take a look at the answer to the two doors dilemma.

### Lesson 20

1. [2.3. Deductive Reasoning](#)
  - Review by reading through the chapter and examples. Stop at "Truth Tables."
  - Do review questions 1-20 and 29-34.
  - Check your [answers](#), Geometry 2.3.
  - Record your score out of 25.

### Lesson 21

1. [2.3. Deductive Reasoning](#)
  - Review by reading through the rest of the chapter and examples starting at "Truth Tables."
  - Do review questions 21-28. (For #27, it should read "The only difference between 24 and 26 is the placement of the parenthesis. How does the truth table differ?")
  - Check your [answers](#), Geometry 2.3.
  - Record up to 8 points for completion.
2. Do some simple word problems solving [segment length](#).
3. Now solve correctly these using the segment addition postulate.
  1. AC is a line segment with point B existing somewhere between points A and C. If the measure of AB is 164, and the measure of BC is 176, then what is the measure of AC?  
(Answer: )
  2. AC is a line segment with point B existing somewhere between points A and C. If the measure of AC is 23, and the measure of AB is 22, then what is the measure of BC?  
(Answer: )

### Lesson 22

1. [2.4. Algebraic and Congruence Properties](#)
  - Do the queue questions.
  - Check your answers at the end of the Chapter (after the review questions section). (ANSWER CORRECTION: For review queue 1: )
  - Record your score as a 5 minus 1 point for each incorrect answer.
  - Try to figure out the "Know What" section.
  - Read through "Properties of Equality" and "Properties of Congruence." When you see equations and things like this,  $\overline{AB} \cong \overline{CD}$ , you should always read it as a sentence. What does this say? (answer: )
2. Watch this [video on the properties](#).
3. Complete this [exercise](#). You aren't being graded on this. There a few you don't know yet. Try to figure out the answer.

### Lesson 23\*

1. \*Print the [worksheet](#) and complete it while you watch the [video on proofs](#).

### Lesson 24

1. Start at "[Using Properties of Equality with Equations](#)." It's right after the charts of equality properties.
2. Go through the proofs carefully. Then do review questions 1-8.
3. Check your [answers](#), Geometry 2.4.
4. You are just going to score this as 8 points. You get the point if you followed the directions.

### Lesson 25

1. Review [proofs](#) with algebra.
2. Finish the [review questions](#), numbers 9 – 33.
3. Check your [answers](#), Geometry 2.4.
4. Record your score out of 35.

### Lesson 26\*

1. \*Complete the [worksheet](#) as you watch the video on [angle proofs](#).

## Assignments for 11<sup>th</sup> Grade

2. Try one or more of these [proof exercises](#). You could click on the first one on complementary angles. Click on one of the statements and it will add it to your proof.
3. Play a little [pool](#). Use angles to make shots. I'll link to this tomorrow too.

### Lesson 27

1. [2.5. Proofs about Angle Pairs and Segments](#)
  - Read the lesson.
  - Try the examples before reading the solutions.
  - Play a little [pool](#). Use angles to make shots.

### Lesson 28

1. [2.5. Proofs about Angle Pairs and Segments](#)
  - Do the review exercises numbers 6 – 35.
  - Check your [answers](#), Geometry 2.5
  - Record your score out of 30.

### Lesson 29

1. Review the terms.
2. Do the questions as a test. Do not look up answers.
3. [Chapter 2 Review1/Test](#). Number 3 has a little typo. I think you'd still get it, but it should say  $6(2a + 1) = 12a + 6$
4. Check your [answers](#), Geometry 2.6 Test.
5. Record your score out of 10.
6. Open your [graphing calculator](#).
7. Type in two equations (the form should be  $y = mx + b$ ) so that their graphs intersect. (Click on equations and then on graph.)
8. Label (in your mind) the four angles formed as angles A, B, C and D. Write as many true statements as you can about those four angles. (congruence, supplements...)

### Lesson 30

1. [3.1. Lines and Angles](#)
  - Do the queue questions.
  - Read the lesson and try the constructions.
  - You can use the links if you like. [one two](#)
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer

### Lesson 31

1. [3.1. Lines and Angles](#)
  - Do the review questions numbers 1-17 and 26-35.
  - Read the lesson and try the constructions. You can use the links if you like. [onetwo](#)
  - Check your [answers](#), Geometry 3.1. Add 4 points for completing constructions.
  - Record your score out of 30. (Extra credit!)

### Lesson 32\*

1. Watch the video on [parallel lines](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 33

1. [3.2. Properties of Parallel Lines](#)
  - Skip the queue questions.
  - Read through the lesson.
  - Remember to keep a list of the theorems and postulates.
  - Do the odd numbered review questions.
  - Check your [answers](#), Geometry 3.2. (ANSWER CORRECTIONS: )
  - Record your score out of 15. (potential for extra credit)

### Lesson 34

1. [3.3. Proving Lines Parallels](#)
  - Do the review queue.
  - Check your answers. As always score as a 5 minus 1 point for each incorrect answer.

- Read through the lesson.
- Do review questions 9 – 22.
- Check your [answers](#), Geometry 3.3.
- Record your scores out of 19.

### Lesson 35

1. [3.4. Properties of Perpendicular Lines](#)
  - Do the review queue.
  - Check your answers.
  - Check your answers. As always score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson.
  - Do review questions 1-5.
  - Check your [answers](#), Geometry 3.4.
  - Record your scores out of 10.

### Lesson 36

1. [3.4. Properties of Perpendicular Lines](#)
  - Do review questions 10-32.
  - Check your [answers](#), Geometry 3.4. (Answer corrections: )
  - Record your score out of 20. (potential for extra credit)

### Lesson 37

1. [3.5. Parallel and Perpendicular Lines in the Coordinate Plane](#)
  - Skip the queue.
  - Read the lesson. Work through the examples.

### Lesson 38

1. [3.5. Parallel and Perpendicular Lines in the Coordinate Plane](#)
  - Do the odd numbered review questions.
  - Check your [answers](#), Geometry 3.5.
  - Record your score out of 16. (potential for extra credit)

### Lesson 39

1. Watch the [video](#) and complete the [exercise](#) on the distance formula.

### Lesson 40

1. [3.6. The Distance Formula](#)
  - Do the queue questions.
  - Check your answers. (1 point each)
  - As always score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson, working through the examples. Stop at "Perpendicular Bisectors..."
  - Do the first two review questions.
  - Check your [answers](#), Geometry 3.6.
  - Record a total for today out of 5.

### Lesson 41

1. [3.6. The Distance Formula](#)
  - Read through the lesson, working through the examples, starting with "Perpendicular Bisectors..."
  - Do the even review questions, 8 through 30. You can try number 31 for 2 points extra credit if you like.
  - Check your [answers](#), Geometry 3.6. (Answers for 12 and 14 are swapped. Answer for #18 is: )
  - Record your score out of 12.

### Lesson 42

1. Review [parallel lines](#) and transversals.
2. Review the chapter vocabulary. [Chapter 3 Review](#)
3. When you are ready, do the question as a test, meaning no looking back at the book or in your notes.
4. Check your [answers](#), Chapter 3 Review.
5. Record your score out of 9.
6. Open your [graphing calculator](#).

## Assignments for 11<sup>th</sup> Grade

7. Type in two equations (the form should be  $y = mx + b$ ) so that their graphs are parallel. (Click on equations and then on graph.)
8. Add in two perpendicular lines.

### Lesson 43

1. Review your work so far. Do each set until you get two right in a row. If you need review, go back to chapter 1.
  - [Angle bisector](#)
  - [Angle algebra](#)
  - [Complementary angles](#)
  - [Supplementary angles](#)
  - [Solve for the angle](#)
2. Do the exercise on [classifying polygons](#).

### Lesson 44

1. Review your work so far.
  - [Parallel](#)
  - [perpendicular](#)
  - [The Distance formula](#)
2. Do each set until you get two right in a row. If you need review, go back to chapter 3.
  - [Solve for the angle](#)
  - [Solve for the angle](#)

### Lesson 45

1. [Triangle Sums 4.1](#)
  - Do the queue questions.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson, working through the examples.
  - Stop at "Exterior Angles."
  - Do review questions 1 – 10 and 19-23.
  - Check your [answers](#), Geometry 4.1.
  - Record your score out of 15.

STOP

Time for a report card and portfolio/records updating.

Portfolio/records: In your portfolio you should include a couple of your assignments from this quarter. You could also take a screen shot of the graphing calculator or other online activity. Choose things that are neat and well kept.

This is how you find your grade: add up all the grades you have been recording for this quarter. Add up your scores and write that number down.

Divide your score by total possible. Move the decimal point over two places to the right. In the next box over, write the number in front of the decimal (something between 1 and 100). This is your percent grade. In the next box over write your letter grade. Anything starting with a 9 is an A. Anything starting with an 8 is a B. Anything starting with a 7 is a C and so forth. If you have everything perfect, then your grade is 100. That's an A too.

Your goal is to get an A for the course at the end of the year. Go back and look at where you lost points. What can you do to avoid losing those points in the next quarter?

### Lesson 46(\*)

## Assignments for 11<sup>th</sup> Grade

1. (\*) Print out your second quarter [grading sheet](#) or use the [Excel](#) version.
2. [4.1. Triangle Sums](#)
  - Read through the lesson, working through the examples, starting with "Exterior Angles."
  - Do review questions 11 – 18 and 24 – 30.
  - Check your [answers](#), Geometry 4.1.
  - Record your score out of 15.

### Lesson 47

1. [4.2 Congruent Figures](#)
  - Skip the queue.
  - Read the lesson and work through the examples.
  - Do the odd review questions through 27.
  - Check your [answers](#), Geometry 4.2 .
  - Record your score out of 12.

### Lesson 48

1. [4.3. Triangle Congruence using SSS and SAS](#)
  - Do the queue questions.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson and work through the examples. Make sure you are writing down postulates so you have them accessible when you write proofs. Make sure you draw the constructions. Stop at the SSS postulate section.
  - Do the review questions numbers 3-9. Can you guess number 7? You'll learn that on Day 50.
  - Check your [answers](#), Geometry 4.3.

### Lesson 49

1. [4.3. Triangle Congruence using SSS and SAS](#)
  - Read the lesson and work through the examples. Start at the SSS postulate section.
  - Do the review questions numbers 10 – 30.
  - Check your [answers](#), Geometry 4.3.
  - Record your score out of 20. (one point extra credit)

### Lesson 50\*

1. Watch the video on [triangle congruence](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 51

1. [4.4. Triangle Congruence Using ASA, AAS, and HL](#)
  - Do queue questions number 2 and 3.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson and through the examples. Make sure you are writing down postulates and theorems, so you have them accessible when you write proofs.
  - Do the *even* review questions numbers from 14-32. The directions have the numbers a bit off, but the actual problems are numbered correctly, so don't worry about it.
  - Check your [answers](#), Geometry 4.4 .
  - Record your score out of 10.

### Lesson 52\*

1. Watch the video on [the isosceles triangle](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 53\*

1. Watch the video on [the isosceles triangle proof](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 54

1. [4.5. Isosceles and Equilateral Triangles](#)
  - Do the queue questions.



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- Check your answers. (ANSWER CORRECTION: #3 of review queue: ) As always record your score as a 5 minus 1 point for each incorrect answer.
- Read the lesson and work through the examples. Make sure you are writing down postulates and theorems, so you have them accessible when you write proofs.
- Do review questions 1-3.
- Check your [answers](#), Geometry 4.5 .
- Record your score out of 3.

### Lesson 55

1. [4.5. Isosceles and Equilateral Triangles](#)

- Do the review questions numbers from 4-31.
- Check your [answers](#), Geometry 4.5 .
- Record your score out of 25. (potential for extra credit)

### Lesson 56

1. Practice [equilateral triangles](#).
2. Practice [isosceles triangles](#).

### Lesson 57\*

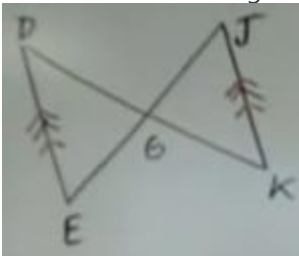
1. Watch the video on [cpctc](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 58\*

1. Watch the video on [proofs](#).
2. \*Take notes on the [worksheet](#) as you watch.

### Lesson 59

1. Review the vocabulary and when you are ready, do the questions as a test (no notes). [4.6. Chapter 4 Review](#)
2. Check your [answers](#), Geometry 4.6.
3. Record your score out of 24 (2 points each for the two steps in the directions).
4. Test continued: Prove that segment DE is congruent to segment JK given that DK bisects JE and that DE and JK are



parallel.

5. Check your proof. There were 10 components to fill in.
6. [Check here](#) after you finish. Do not cheat! It is a form of lying.
7. Record your score out of 10.

### Lesson 60

1. You are going to be doing some [SAT prep](#). (You may choose to create a free account.)
2. Each day you are going to choose three problems. This should not take more than five minutes, including reviewing the answers.
3. [5.1. Midsegments of a Triangle](#)
  - Do the review queue questions numbers 2-5.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Draw your answer to the "know what" question.
  - Read through the lesson and work through the problems as you need to.
  - You can use the link in the text to explore [midsegments](#).
  - Answer review questions: ODDS 3 – 15.
  - Check your [answers](#), Geometry 5.1 .
  - Record your score out of 7.

### Lesson 61

## Assignments for 11<sup>th</sup> Grade

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1. You are going to start with [SAT prep](#).
2. Each day you are going to three problems. This should not take more than five minutes, including reviewing the answers.
3. [5.2 Perpendicular Bisectors in Triangles](#)
  - Do the review queue questions.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems. Make sure you are writing down theorems so you have them as a reference for proofs.
  - Follow the directions to make the constructions.

### Lesson 62

1. Do three problems for [SAT practice](#).
2. [5.2. Perpendicular Bisectors in Triangles](#)
  - Answer review questions: ODDS 9-15, 16-25, 29, 31
  - Check your [answers](#), Geometry 5.2.
  - Record your score out of 15. (potential for an extra credit point)

### Lesson 63

1. Do three problems for [SAT practice](#).
2. [5.3. Angle Bisectors in Triangles](#)
  - Do the review queue 1-3a.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems.
  - Do numbers 1 and 2 in the review questions.
  - Check your [answers](#), Geometry 5.3 , and make sure you understand.

### Lesson 64

1. Do three problems for [SAT practice](#).
2. [5.3. Angle Bisectors in Triangles](#)
  - Do numbers 10 through 29 in the review questions.
  - Check your [answers](#), Geometry 5.3.
  - Record your score out of 20.

### Lesson 65

1. Do three problems for [SAT practice](#).
2. [5.4. Medians and Altitudes in Triangles](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems. Stop at Altitudes.
  - Do number 3 in the review questions.
  - Check your [answers](#), Geometry 5.4 .
  - Review [corresponding parts](#).

### Lesson 66

1. Do three problems for [SAT practice](#).
2. [5.4. Medians and Altitudes in Triangles](#)
  - Read through the lesson and work through the problems beginning at Altitudes.
  - Do numbers 1, 5 and 7 in the review questions.
  - Check your [answers](#), Geometry 5.4 .
  - Practice [altitudes](#).

### Lesson 67

1. Do three problems for [SAT practice](#).
2. [5.4. Medians and Altitudes in Triangles](#)
  - Do numbers 12 through 30 in the review questions.
  - Check your [answers](#), Geometry 5.4.
  - Record your score out of 19.

### Lesson 68

1. Do three problems for [SAT practice](#).
2. [5.5. Inequalities in Triangles](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems. Make sure you are taking notes.
  - Do numbers 1 and 4 in the review questions.
  - Check your [answers](#), Geometry 5.5 .

### Lesson 69

1. Do three problems for [SAT practice](#).
2. [5.5. Inequalities in Triangles](#)
  - Do numbers 10 through 30 in the review questions.
  - Check your [answers](#), Geometry 5.5.
  - Record your score out of 20.

### Lesson 70

1. Do three problems for [SAT practice](#). Make sure you are paying attention to the right answers. You are supposed to learn from your mistakes!
2. Read about [indirect proofs](#).
3. Read through the steps and example of an [indirect proof](#).
4. Try to solve the [indirect proof yourself](#). Fill in each step, starting with the given, before revealing what's next.
5. [5.6. Extension: Indirect Proof](#)
  - Do number 2 in the review questions.
  - Check your [answers](#), Geometry 5.6 .

### Lesson 71

1. Do three problems for [SAT practice](#).
2. [5.6. Extension: Indirect Proof](#)
  - Do numbers 3-10 in the review questions.
  - Check your [answers](#), Geometry 5.6. Each is worth two points. You can get partial credit for partially correct answers.
  - Record your score out of 15.

### Lesson 72

1. Review for your test. If you can't remember something, you can use the reading or video links along the top of the page.
  - [Perpendicular bisectors](#)
  - [Angle bisectors](#)
  - [Triangle inequality](#)
2. You should also review the indirect proofs from Day 70. (Hint: If a teacher tells you something specific to know for a test, you should study it!)
3. There's a test on Day 73.

### Lesson 73

1. Review the vocabulary and when you are ready, do the questions as a test (no notes). [5.7. Chapter 5 Review](#) (The triangle this is mislabeled here is the [replacement](#))
2. Check your [answers](#), Geometry 5.7.
3. Record your score out of 10.
4. Test continued: Do [problems 19-22](#).
5. Check your [answers](#) (found under Section 5.1). Score up to 3 points for each problem.
6. Record your score out of 10.
7. Test continued: Complete the [proof](#).
8. Check your [proof](#). There were 22 components to fill in.
9. Record your score out of 20.

### Lesson 74

1. Do three problems for [SAT practice](#).
2. [6.1. Angles in Polygons](#)
  - Do number 2 in the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems. Follow the directions. STOP at Exterior Angles.
  - Do number 1 in the review questions.
  - Check your [answers](#), Geometry 6.1.

### Lesson 75

1. Do three problems for [SAT practice](#).
  2. [6.1. Angles in Polygons](#)
    - Read through the lesson and work through the problems. Follow the directions. START at Exterior Angles.
    - Do ODD numbers 3 through 29 in the review questions.
    - Get up to 6 points for doing number 31. 1 point just for trying—all bonus points.
    - Check your [answers](#), Geometry 6.1.
- 
- Record your score out of 14.

### Lesson 76\*

1. Do three problems for [SAT practice](#).
2. Watch the [video](#) on parallelograms and take notes on the [\\*worksheet](#) as you watch.

### Lesson 77

1. Do three problems for [SAT practice](#).
2. [6.2. Properties of Parallelograms](#)
  - Do numbers 1 – 3a in the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and take notes.
  - Do numbers 1, 3, 5, 23, 27 in the review questions.
  - Check your [answers](#), Geometry 6.2. #27 is worth 5 points.
  - Record your score out of 10.

### Lesson 78

1. Do three problems for [SAT practice](#).
2. [6.3. Proving Quadrilaterals are Parallelograms](#)
  - Do numbers 1 and 2 in the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson and work through the problems.
  - Do numbers 1 through 4 in the review questions.
  - Check your [answers](#), Geometry 6.3 .

### Lesson 79

1. Do three problems for [SAT practice](#).
2. [6.3. Proving Quadrilaterals are Parallelograms](#)
  - Do numbers 18 through 31 in the review questions (Questions 29 and 30 refer to 28).
  - Check your [answers](#), Geometry 6.3. The three proofs are 5 points each.
  - Record your score out of 14.

### Lesson 80\*

1. Do three problems for [SAT practice](#).
2. Watch the [video](#) on rombi and complete the [\\*worksheet](#) as you watch.

### Lesson 81

1. Do three problems for [SAT practice](#).
2. [6.4. Rectangles, Rhombuses and Squares](#)
  - Read through the lesson and take notes, as usual, on the theorems. Take your time reading the chart. Make sure you know what each of those things me.

- Do numbers 1 and 2 in the review questions.
- Check your [answers](#), Geometry 6.4.
- Record your score out of 10.

### Lesson 82

1. Do three problems for [SAT practice](#).
2. [6.4. Rectangles, Rhombuses and Squares](#)
  - Do numbers 10 through 27 in the review questions.
  - Check your [answers](#), Geometry 6.4.
  - Record your score out of 18.

### Lesson 83

1. Do three problems for [SAT practice](#).
2. [6.5. Trapezoids and Kites](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson. Work through the problems. Stop at Kites and skip down to algebra review and work through that section.
  - Do numbers 1 and 9 in the review questions.
  - Check your [answers](#), Geometry 6.5.

### Lesson 84

1. Do three problems for [SAT practice](#).
2. [6.5. Trapezoids and Kites](#)
  - Read through the lesson sections on Kites. Work through the problems.
  - Do numbers 14, 17, 22 through 28 in the review questions. The three proofs are 5 points each.
  - Check your [answers](#), Geometry 6.5. (ANSWER CORRECTION: )
  - Record your score out of 20. (Potential for extra credit.)

### Lesson 85

1. Review the vocabulary and complete the [6.6. Chapter 6 Review](#). In the chart, consider the last category to be congruent diagonals instead of consecutive angles.
2. Check your [answers](#), Geometry 6.6.
3. Using the graphing calculator, enter equations that will draw a parallelogram, a trapezoid and a kite.

### Lesson 86

1. Let's review.
  - [Congruent triangles](#)
  - [ASA and AAS](#)
  - [Angle bisectors](#)
  - [Corresponding parts](#)
2. On Day 87 there will be a midterm, a test on what you have learned the first half of the course. I suggest taking the time to look through your notes and work to refresh your memory. The test is going to be in the form of the exercises you just did plus one proof from your last chapter.

### Lesson 87

1. Close all notebooks and other windows etc. on your computer.
2. Take your test, [geometry midterm](#). The questions shuffle, so don't try to stop and start again. You can't stop and pick up where you left off. ([alternate link](#) if that isn't working)
3. Take note of your score.
4. Write out your proof, [number twenty-seven](#).
5. Check your [answers](#). This is worth up to five points. They are all extra points. Add them onto your midterm total.
6. Record your score out of 50.

### Lesson 88

1. Do three problems for [SAT practice](#).
2. [7.1. Ratios and Proportions](#)
  - Do the review queue.

## Assignments for 11<sup>th</sup> Grade

- Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
- Read through the lesson. Work through the examples. Stop at Properties of Proportions.
- Do numbers 2, 4 and 6 in the review questions.
- Check your [answers](#), Geometry 7.1. (Answer correction: )

### Lesson 89

1. Do three problems for [SAT practice](#).
2. [7.1. Ratios and Proportions](#)
  - Read through the lesson section on Properties of Proportions.
  - Do numbers 7 through 31 ODDS in the review questions.
  - Check your [answers](#), Geometry 7.1.
  - Record your score out of 13. (Potential for extra credit.)

### Lesson 90\*

1. Do three problems for [SAT practice](#).
2. Watch the [video](#) on similarity and take notes on the [\\*worksheet](#) as you watch.
3. Do the review queue, [7.2. Similar Polygons](#)
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.

STOP

Time for a report card and portfolio/records updating.

Portfolio/records: In your portfolio you should include a couple of your assignments from this quarter. You could also take a screen shot of the graphing calculator or other online activity. Choose things that are neat and well kept.

This is how you find your grade: add up all the grades you have been recording for this quarter. Add up your scores and write that number down.

Divide your score by total possible. Move the decimal point over two places to the right. In the next box over, write the number in front of the decimal (something between 1 and 100). This is your percent grade. In the next box over write your letter grade. Anything starting with a 9 is an A. Anything starting with an 8 is a B. Anything starting with a 7 is a C and so forth. If you have everything perfect, then your grade is 100. That's an A too.

Your goal is to get an A for the course at the end of the year. Go back and look at where you lost points. What can you do to avoid losing those points in the next quarter?

### Lesson 91(\*)

1. (\*)Print out the [grading sheet](#) for the third quarter or use the [Excel](#) version.
2. Try three [SAT math](#) problems.
3. [7.2. Similar Polygons](#)
  - Read through the lesson. Work through the examples as needed.
  - Do numbers 1-8, 14-18, and 26-29 in the review questions.
  - Check your [answers](#), Geometry 7.2.
  - Record your score out of 15. (Potential for extra credit)

### Lesson 92

1. Do three problems for [SAT practice](#).
2. [7.3. Similarity by AA](#)
  - Read through the lesson. Work through the examples and take notes.
  - Do numbers 1-11 in the review questions.

- Check your [answers](#), Geometry 7.3.
- Record your score out of 10. (Potential for extra credit)

### Lesson 93

1. Do three problems for [SAT practice](#).
2. [7.3. Similarity by AA](#)
  - Review similarity in [polygons](#) and in [triangles](#).
  - Do numbers 16-18, 24-31 in the review questions and 19-21 from the [polygons chapter](#).
  - Check your [answers](#), Geometry 7.3.
  - Record your score out of 13. (Potential for extra credit.)

### Lesson 94

1. Do three problems for [SAT practice](#).
2. [7.4. Similarity by SSS and SAS](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson. Take notes as always on the theorems. Follow the directions. Do the constructions and work through the examples.
  - You can play [pool](#) when you are done.

### Lesson 95

1. Do three problems for [SAT practice](#).
2. [7.4. Similarity by SSS and SAS](#)
  - Do numbers 1-4, 8-12, 18-27 in the review questions.
  - Check your [answers](#), Geometry 7.4. (Answer correction: )
  - Record your score out of 18. (Potential for extra credit.)

### Lesson 96

1. Do three problems for [SAT practice](#).
2. [7.5. Proportionality Relationship](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read through the lesson. Take notes as always on the theorems. Follow the directions. Do the investigation and work through the examples. STOP at parallel lines and transversals.
3. Do the practices on triangle similarity: [one](#), [two](#), [three](#).
4. Do three questions on the [polygon similarity quiz](#). (You have to copy and paste the link addresses into a new tab.)

### Lesson 97

1. Do three problems for [SAT practice](#).
2. [7.5. Proportionality Relationship](#)
  - Finish the lesson. START at parallel lines and transversals.
  - Do numbers 1-10 in the review questions.
  - Check your [answers](#), Geometry 7.5.
  - Record your score out of 10.

### Lesson 98

1. Do three problems for [SAT practice](#).
2. [7.5. Proportionality Relationships](#)
  - Do numbers 19 – 30 in the review questions.
  - Check your [answers](#), Geometry 7.5. (Answer corrections: )
  - Record your score out of 10. (Potential for extra credit.)

### Lesson 99

1. Do three problems for [SAT practice](#).
2. [7.6. Similarity Transformations](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.

## Assignments for 11<sup>th</sup> Grade

- Remind yourself about [transformations](#). Drive to the transformation room and play the game.
- Read through the first section of the lesson on dilations. Stop at the coordinate plane part.
- Do numbers 7-10 in the review questions. Explain to someone the answer to 12.
- Check your [answers](#), Geometry 7.6.

### Lesson 100

1. Do three problems for [SAT practice](#).
2. [7.6. Similarity Transformations](#)
  - Finish the lesson. START at the coordinate plane part.
  - Do numbers 1-6, 15-21, 28-30 in the review questions.
  - Check your [answers](#), Geometry 7.6.
  - Record your score out of 15. (Potential for extra credit.)

### Lesson 101

1. Do three problems for [SAT practice](#).
2. Complete the lesson on [fractals](#).
3. Check your [answers](#), Geometry 7.7.
4. Record your score out of 10.

### Lesson 102

1. Review the vocabulary and when you are ready, do the questions as a test (no notes). [7.8. Chapter 7 Review](#)
2. Check your [answers](#), Geometry 7.8.
3. Record your score out of 14.
4. Play with [dilations](#).
5. You can play with [fractals](#) too.

### Lesson 103

1. Do three problems for [SAT practice](#).
2. [8.1. The Pythagorean Theorem](#)
  - Do the review queue numbers 1, 2, 4.
  - Check your answers. (ANSWER CORRECTION: ) As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Do the [investigation online](#) instead of cutting out paper.
  - Do numbers 4 – 6 in the review questions.
  - Check your [answers](#), Geometry 8.1.

### Lesson 104

1. Do three problems for [SAT practice](#).
2. [8.1. The Pythagorean Theorem](#)
  - Do numbers 7 – 23 ODDS and then 27 – 32 in the review questions.
  - Check your [answers](#), Geometry 8.1.
  - Record your score out of 15.
  - Add two points for getting number 25 right and one point for giving it a good try. Be diligent and give it your best try.

### Lesson 105

1. Do three problems for [SAT practice](#).
2. [8.2. Converse of the Pythagorean Theorem](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Take notes. Work through the examples. After you read the proof, try to write it out for yourself.

### Lesson 106

1. Do three problems for [SAT practice](#).
2. [8.2. Converse of the Pythagorean Theorem](#)
  - Do numbers 1-31 ODDS and then 22 in the review questions.



## Assignments for 11<sup>th</sup> Grade

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- Check your [answers](#), Geometry 8.2. Make sure you correct your proof if necessary.
- Record your score out of 25. (10 points for the proof, 1 point potential extra credit)

### Lesson 107

1. Do three problems for [SAT practice](#).
2. [8.3. Using Similar Right Triangles](#)
  - Do the review queue.
  - Check your [answers](#). As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Take notes. Work through the examples.
  - Read about the uses of the [Pythagorean Theorem](#).

### Lesson 108

1. Do three problems for [SAT practice](#).
2. [8.3. Using Similar Right Triangles](#)
  - Do numbers 6-30 EVENS and then 21.
  - Check your [answers](#), Geometry 8.3. (ANSWER CORRECTION: )
  - Record your score out of 20. (1 point for each part of the proofs)

### Lesson 109\*

1. Do three problems for [SAT practice](#).
2. Watch the video on [triangles 30-60-90](#).
3. \*Take notes on the [worksheet](#) as you watch.

### Lesson 110\*

1. Do three problems for [SAT practice](#).
2. Watch the video on [triangles 45-45-90](#).
3. \*Take notes on the [worksheet](#) as you watch.

### Lesson 111

1. Do three problems for [SAT practice](#).
2. [8.4. Special Right Triangles](#)
  - Read the lesson. Do the investigation.
  - Do numbers 14-24.
  - Check your [answers](#), Geometry 8.4.
  - Record your score out of 10. (potential 1 point extra credit)

### Lesson 112

1. Do three problems for [SAT practice](#).
2. Watch the first two videos on [trigonometry](#) and do the first exercise. ([Basic trigonometry](#), [example](#), [exercise 0.5](#))
3. [8.5. Tangent, Sine and Cosine](#)
  - Do the review queue.
  - Check your [answers](#). As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. STOP at the first example.

### Lesson 113

1. Do three problems for [SAT practice](#).
2. [8.5. Tangent, Sine and Cosine](#)
  - Read the lesson. START at the first example. Use the [scientific calculator](#) when instructed to.
  - Do numbers 1-6, 19-30. Use the calculator when instructed to.
  - Check your [answers](#), Geometry 8.5.
  - Record your score out of 18.

### Lesson 114

1. Do three problems for [SAT practice](#).
2. [8.6. Inverse Trigonometric Ratios](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Do the examples. Use the [scientific calculator](#) when instructed to.
  - Do numbers 1-3 in the review questions.

- Check your [answers](#), Geometry 8.6.

### Lesson 115

1. Do three problems for [SAT practice](#).
2. [8.6. Inverse Trigonometric Ratios](#)
  - Do numbers 7-9, 10-22 EVENS, and 23-32 in the review questions. Use the [calculator](#) as needed.
  - Check your [answers](#), Geometry 8.6.
  - Record your score out of 20.

### Lesson 116

1. Do three problems for [SAT practice](#).
2. [8.7. Extension: Laws of Sines and Cosines](#)
  - Read the lesson and work through the examples.
  - Do numbers 6-15 in the review questions. Use the [calculator](#) as needed.
  - Check your [answers](#), Geometry 8.7.
  - Record your score out of 10.

### Lesson 117

1. Do three problems for [SAT practice](#).
2. Watch the video on basic [trigonometry](#) functions.
3. Do the [exercise](#). And [another practice](#).
4. Review chapter 8 for a test. Make sure you review the proofs.

### Lesson 118

1. Do the questions as a test (no notes). [8.8. Chapter 8 Review](#) Use the [calculator](#) as needed.
2. Check your [answers](#), Geometry 8.8. (Answer corrections:  
)
3. Record your score out of 20. (Potential for extra credit)
4. Given: In  $\triangle ABC$ ,  $a^2 + b^2 > c^2$ , and  $c$  is the longest side. In  $\triangle LMN$ ,  $\angle N$  is a right angle. Prove:  $\triangle ABC$  is an acute triangle. (all angles are less than  $90^\circ$ )
5. Check your [answers](#).
6. Record your score out of 10. (half a point for each step and each reason)

### Lesson 119\*

1. Do three problems for [SAT practice](#).
2. Watch the video on [circles](#).
3. \*Take notes on the [worksheet](#) as you watch.

### Lesson 120

1. Do three problems for [SAT practice](#).
2. [9.1. Parts of Circles & Tangent Lines](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Do the investigation.

### Lesson 121

1. Do three problems for [SAT practice](#).
2. [9.1. Parts of Circles & Tangent Lines](#)
  - Do numbers 1-9, 10-26 EVEN, and 27-33 in the review questions.
  - Check your [answers](#), Geometry 9.1.
  - Record your score out of 25.

### Lesson 122

1. Do three problems for [SAT practice](#).
2. [9.2. Properties of Arcs](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.

## Assignments for 11<sup>th</sup> Grade

- Read the lesson. Remember to always read equations as sentences. What does this sentence say?  $\widehat{AD} \cong \widehat{BC}$  (answer: \_\_\_\_\_) Work through the examples.

### Lesson 123

1. Do three problems for [SAT practice](#).
2. [9.2. Properties of Arcs](#)
  - Do numbers 10-15 and 22-36 in the review questions.
  - Check your [answers](#), Geometry 9.2.
  - Record your score out of 20. (potential for extra credit)

### Lesson 124

1. Do three problems for [SAT practice](#).
2. [9.3. Properties of Chords](#)
  - Read the lesson. Work through the examples and do the investigations.

### Lesson 125

1. Do three problems for [SAT practice](#).
2. [9.3. Properties of Chords](#)
  - Do numbers 1-17 and 26-30 in the review questions. (29 and 30 are worth 5 and 6 points respectively)
  - Check your [answers](#), Geometry 9.3.
  - Record your score out of 30. (potential for extra credit)

### Lesson 126

1. Do three problems for [SAT practice](#).
2. [9.4. Inscribed Angles](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Work through the examples and do the investigations.
  - Do numbers 1-6 in the review questions.
  - Check your [answers](#), Geometry 9.4.

### Lesson 127

1. Do three problems for [SAT practice](#).
2. [9.4. Inscribed Angles](#)
  - Do numbers 7-14, 20-21, and 24-31 in the review questions. (30 and 31 are worth 12 and 8 points respectively)
  - Check your [answers](#), Geometry 9.4. Make sure you understand the proofs.
  - Record your score out of 33. (potential for 3 points extra credit)

### Lesson 128

1. Do three problems for [SAT practice](#).
2. [9.5. Angles of Chords, Secants, and Tangents](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Take notes. Work through the examples and do the investigations.
  - Do number 1 in the review questions.
  - Check your [answers](#), Geometry 9.5.

### Lesson 129

1. Do three problems for [SAT practice](#).
2. [9.5. Angles of Chords, Secants, and Tangents](#)
  - Do numbers 2 – 7, 15-26, and 31-32 in the review questions. (31 and 32 are worth 12 and 16 points respectively)
  - Check your [answers](#), Geometry 9.5. Make sure you understand the proofs.  
(ANSWER CORRECTION: \_\_\_\_\_)
  - Record your score out of 42. (potential for 4 points extra credit)

### Lesson 130

1. Do three problems for [SAT practice](#).

2. [9.6. Segments of Chords, Secants, and Tangents](#)

- Do the review queue.
- Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
- Read the lesson. Take notes. Work through the examples.
- Do number 1 in the review questions.
- Check your [answers](#), Geometry 9.6.

### Lesson 131

1. Do three problems for [SAT practice](#).
2. [9.6. Segments of Chords, Secants, and Tangents](#)
  - Do numbers 16 – 30 in the review questions.
  - Check your [answers](#), Geometry 9.6. Make sure you understand the proofs.
  - Record your score out of 15.

### Lesson 132

1. Do three problems for [SAT practice](#).
2. [9.7. Extension: Writing and Graphing the Equations of Circles](#)
  - Read the lesson. Take notes. Work through the examples. You can use the [graphing calculator](#) if you like.
  - Do numbers 1-4 in the review questions.
  - Check your [answers](#), Geometry 9.7.

### Lesson 133

1. Do three problems for [SAT practice](#).
2. [9.7. Extension: Writing and Graphing the Equations of Circles](#)
  - Do numbers 5-16 in the review questions.
  - Check your [answers](#), Geometry 9.7. Make sure you understand the proofs.
  - Record your score out of 12. (I think your grading sheet says 15. Bonus! Add 3 points to your score.)
3. Study the chapter for a test.

### Lesson 134

1. Do the questions as a test (no notes). [9.8. Chapter 9 Review](#)
2. Check your [answers](#), Geometry 9.8.
3. Record your score out of 10. (Potential for extra credit)
4. Review for a test on chapters 7, 8 and 9. Make sure to review the proofs from the review questions you've done.

### Lesson 135

1. Take your [test](#). (no notes, no other windows open on your computer)
2. Check your [answers](#).
3. Record your score out of 48.

STOP

Time for a report card and portfolio/records updating.

Portfolio/records: In your portfolio you should include a couple of your assignments from this quarter. You could also keep a page of notes from one of the videos with a note about what it is. Choose things that are neat and well kept.

This is how you find your grade: add up all the grades you have been recording for this quarter. Add up your scores and write that number down.

Divide your score by total possible. Move the decimal point over two places to the right. In the next box over, write the number in front of the decimal (something between 1 and 100). This is your percent grade. In the next box over write your letter grade. Anything starting with a 9 is an A. Anything starting with an 8 is a B. Anything starting with a 7 is a C and so forth. If you have everything perfect, then your grade is 100. That's an A too.

## Assignments for 11<sup>th</sup> Grade

Your goal is to get an A for the course at the end of the year. Go back and look at where you lost points. What can you do to avoid losing those points in the next quarter?

### Lesson 136\*(\*)

1. (\*)Print out the [grading sheet](#) for the fourth quarter or use the [Excel](#) version.
2. Try three [SAT math](#) problems.
3. Watch the video on [area](#).
4. \*Take notes on the [worksheet](#) as you watch.

### Lesson 137

1. Do three problems for [SAT practice](#).
2. [10.1. Triangles and Parallelograms](#)
  - Read the lesson.
  - Do numbers 1-27 ODDS in the review questions. You can get one extra credit point for each right answer for problems 28-35.
  - Check your [answers](#), Geometry 10.1. **(NOTE: The answer for #9 should be 12, not 6.)**
  - Record your score out of 14.

### Lesson 138

1. Do three problems for [SAT practice](#).
2. [10.2. Trapezoids, Rhombi, and Kites](#)
  - Read the lesson.
  - Do numbers 1 – 21 ODDS in the review questions.
  - Check your [answers](#), Geometry 10.2. (ANSWER CORRECTION:
  - Record your score out of 10. (Potential for extra credit)

### Lesson 139

1. Do three problems for [SAT practice](#).
2. [10.3. Areas of Similar Polygons](#)
  - Read the lesson.
  - Do numbers 9 – 29 ODDS in the review questions.
  - Check your [answers](#), Geometry 10.3.
  - ANSWER CORRECTIONS: ( )
  - Record your score out of 10. (Potential for extra credit)

### Lesson 140

1. Do three problems for [SAT practice](#).
2. [10.4. Circumference and Arc Length](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson. Work through the investigation.
  - Do numbers 1-4 in the review questions.
  - Check your [answers](#), Geometry 10.4.

### Lesson 141

1. Do three problems for [SAT practice](#).
2. [10.4. Circumference and Arc Length](#)
  - Do numbers 16-30 in the review questions.
  - Check your [answers](#), Geometry 10.4.
  - Record your score out of 15.

### Lesson 142

1. Do three problems for [SAT practice](#).
2. [10.5. Areas of Circles and Sectors](#)
  - Do the review queue.
  - Check your [answers](#). As always record your score as a 5 minus 1 point for each incorrect answer.

- Read the lesson. Work through the examples.

### Lesson 143

1. Do three problems for [SAT practice](#).
2. [10.5. Areas of Circles and Sectors](#)
  - Do numbers 1-31 ODDS in the review questions.
  - Check your [answers](#), Geometry 10.5.
  - (ANSWER CORRECTION #27: )
  - Record your score out of 15. (potential for extra credit)

### Lesson 144

1. Do three problems for [SAT practice](#).
2. [10.6. Area and Perimeter of Regular Polygons](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the lesson.
  - Do numbers 1-8 in the review questions.
  - Check your [answers](#), Geometry 10.6.

### Lesson 145

1. Do three problems for [SAT practice](#).
2. [10.6. Area and Perimeter of Regular Polygons](#)
  - Do numbers 13-24 in the review questions.
  - Check your [answers](#), Geometry 10.6.
  - Record your score out of 12.
  - One point for each correct answer from 25 through 34. (potential for extra credit)

### Lesson 146

1. Review
  - [Area and Perimeter of Triangles](#)
  - [Area and Perimeter of Trapezoids](#)
  - [Rhombus and Kite](#)
  - [Similar Polygons](#)
  - [Sectors and Segments](#)
  - Use these to review for your test. You can also go back and look at the parts of chapter 10. (No proof this time.)

### Lesson 147

1. Do the questions as a test (no notes). [10.7. Chapter 10 Review](#)
2. Check your [answers](#), Geometry 10.7.
3. Record your score out of 15.
4. Today's a good day to look back over your math notebook for a review. On Day 180 there will be a final covering the whole course. You're approaching the end!

### Lesson 148

1. Do three problems for [SAT practice](#).
2. [11.1. Exploring Solids](#)
  - Go through the lesson. STOP at Cross Sections
  - This is [Euler](#). (You don't have to read the whole page, but you should recognize his name and know a bit about him.)
  - Do numbers 1-14 in the review questions.
  - Check your [answers](#), Geometry 11.1.
  - Record your score out of 14.

### Lesson 149

1. Do three problems for [SAT practice](#).
2. [11.1. Exploring Solids](#)

## Assignments for 11<sup>th</sup> Grade

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- Read about cross sections and nets.
- Spend some time on the interactives on these pages.
  - [cross sections](#) (try to make the cross sections—you can't make them all)
  - [nets](#) (scroll down for the interactive)
- Do numbers 15-25 in the review questions.
- Check your answers, [Geometry 11.1](#).
- Record your score out of 10. (potential for extra credit)
- For extra credit: One point for each correct answer from 25 through 34.

### Lesson 150

1. Do three problems for [SAT practice](#).
2. [11.2. Surface Area of Prisms and Cylinders](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the lesson. Don't use the link in the material.
  - Here are animations of the nets for [cylinders](#) and [rectangular prisms](#), if you need help picturing the pieces.
  - Do numbers 1-2 in the review questions.
  - Check your [answers](#), Geometry 11.2.

### Lesson 151

1. Do three problems for [SAT practice](#).
2. [11.2. Surface Area of Prisms and Cylinders](#)
  - Do numbers 3-6, 11-17, 23-29 in the review questions.
  - Check your [answers](#), Geometry 11.2.
  - Record your score out of 18.
  - If you want extra credit: Up to two points for a correct answer to 30, the expression and the surface area.

### Lesson 152

1. Do three problems for [SAT practice](#).
2. [11.3. Surface Area of Pyramids and Cones](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the first part of the lesson on pyramids.
  - Do numbers 1-6, 9-15 ODD, 21-22 in the review questions.
  - Check your [answers](#), Geometry 11.3.
  - Record your score out of 12.

### Lesson 153

1. Do three problems for [SAT practice](#).
2. [11.3. Surface Area of Pyramids and Cones](#)
  - Read the second half of the lesson on cones.
  - Do numbers 14, 17, 19, 23-30 in the review questions.
  - Check your [answers](#), Geometry 11.3.
  - Record your score out of 10. (potential for an extra credit point)

### Lesson 154

1. Do three problems for [SAT practice](#).
2. [11.4. Volume of Prisms and Cylinders](#)
  - Do the review queue #2-4.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the first part of the lesson on prisms. Stop at cylinders.
  - Do numbers 2-3, 5, 7-9, 11-12, 16-17, 23-25 in the review questions.
  - Check your [answers](#), Geometry 11.4.
  - Record your score out of 12. (potential for an extra credit point)

### Lesson 155

1. Do three problems for [SAT practice](#).

2. [11.4. Volume of Prisms and Cylinders](#)
  - Read the second half of the lesson on cylinders.
  - Watch the [video](#) and solve the interactive. (Click on the “interactive” button.)
  - Do numbers 10, 13, 15, 18, 20-22, 26-30 in the review questions. (For question 26, the diagram is incorrect. The radius of the cylinder is 9.)
  - Check your [answers](#), Geometry 11.4.
  - Record your score out of 12.

### Lesson 156

1. Do three problems for [SAT practice](#).
2. [11.5. Volume of Pyramids and Cones](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the first part of the lesson on pyramids. Stop at cones.
  - Do numbers 1-2, 5-6, 13-23 in the review questions.
  - Check your [answers](#), Geometry 11.5.
  - Record your score out of 15. (potential for an extra credit point)

### Lesson 157

1. Do three problems for [SAT practice](#).
2. [11.5. Volume of Pyramids and Cones](#)
  - Read the second half of the lesson on cones.
  - Do numbers 7, 9-12, 24-30 in the review questions.
  - Check your [answers](#), Geometry 11.5.
  - Record your score out of 12.

### Lesson 158

1. Do three problems for [SAT practice](#).
2. [11.6. Surface Area and Volume of Spheres](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the the lesson. Don't use the animations.
  - Do number 2 in the review questions.
  - Check your [answers](#), Geometry 11.6.

### Lesson 159

1. Do three problems for [SAT practice](#).
2. [11.6. Surface Area and Volume of Spheres](#)
  - Do numbers 2-26 EVENS in the review questions.
  - Check your [answers](#), Geometry 11.6. (ANSWER CORRECTIONS: )
  - Record your score out of 13.
  - Extra credit: one point for getting number 29 correct.

### Lesson 160

1. Do three problems for [SAT practice](#).
2. [11.7. Exploring Similar Solids](#)
  - Do the review queue, numbers 1-5.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Go through the the lesson. Work through the examples.
  - Do number 1 in the review questions.
  - Check your [answers](#), Geometry 11.7.

### Lesson 161

1. Do three problems for [SAT practice](#).
2. [11.7. Exploring Similar Solids](#)
  - Do numbers 2-24 EVENS and 26-32 in the review questions.
  - Check your [answers](#), Geometry 11.7.



- Record your score out of 19.

### Lesson 162

1. Review chapter 11.
  - [Surface area and volume of prisms](#)
  - [Surface Area and Volume of Cylinders](#)
  - [Surface Area and Volume of Pyramids](#)
  - [Surface Area and Volume of Cones](#)

### Lesson 163

1. Do the questions as a test (no notes). [11.8. Chapter 11 Review](#)
2. Check your [answers](#), Geometry 11.8.
3. Record your score out of 22.
4. Today's a good day to look back over your math notebook for a review. On Day 180 there will be a final covering the whole course.

### Lesson 164

1. Do three problems for [SAT practice](#).
2. [12.1. Exploring Symmetry](#)
  - Answer the [questions about symmetry](#). You can use the page if you need help.
  - Go through the the lesson.
  - Do numbers 1-22, 29-37 in the review questions.
  - Check your [answers](#), Geometry 12.1.
  - Record your score out of 30. (potential for an extra credit point)

### Lesson 165

1. Do three problems for [SAT practice](#).
2. [12.2. Translations and Vectors](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the first part of the lesson about translations in the chapter for today.
  - Do some [simple translations](#). Type in how many units to move x and y and then click on translate.
  - Read about [translations](#).
  - Read about [frieze patterns](#).
  - Do problem C2 at the bottom of the page. You can refer to C1 to help you

### Lesson 166

1. Do three problems for [SAT practice](#).
2. [12.2. Translations and Vectors](#)
  - Finish reading the chapter, starting with vectors.
  - Do numbers 13-32 in the review questions.
  - Check your [answers](#), Geometry 12.2.
  - Record your score out of 20.

### Lesson 167

1. Do three problems for [SAT practice](#).
2. [12.3. Reflections](#)
  - [Reflect](#) the house around the grid.
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson about reflections.
  - Do numbers 1-2 in the review questions.
  - Check your [answers](#), Geometry 12.3.

### Lesson 168

1. Do three problems for [SAT practice](#).

2. [12.3. Reflections](#)
  - Do numbers 11-30 in the review questions.
  - Check your [answers](#), Geometry 12.3. #30 is worth 5 points.
  - Record your score out of 25.

### Lesson 169

1. Do three problems for [SAT practice](#).
2. [12.4. Rotations](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson about rotations. Do the investigation.
  - Do number 1 in the review questions.
  - Check your [answers](#), Geometry 12.4.

### Lesson 170

1. Do three problems for [SAT practice](#).
2. [12.4. Rotations](#)
  - Do numbers 2-22 EVENS and 24-31 in the review questions.
  - Check your [answers](#), Geometry 12.4.
  - Record your score out of 19.

### Lesson 171

1. Do three problems for [SAT practice](#).
2. [12.5. Composition of Transformations](#)
  - Do the review queue.
  - Check your answers. As always record your score as a 5 minus 1 point for each incorrect answer.
  - Read the lesson.
  - Do numbers 1-6 in the review questions.
  - Check your [answers](#), Geometry 12.5.

### Lesson 172

1. Do three problems for [SAT practice](#).
2. [12.5. Composition of Transformations](#)
  - Do numbers 8-28 EVENS in the review questions.
  - Check your [answers](#), Geometry 12.5.
  - Record your score out of 10. (potential for an extra credit point)
  - Extra credit: One point each for correct answers to 29 and 30.

### Lesson 173

1. Do three problems for [SAT practice](#).
2. [12.6. Extension: Tessellations](#)
  - Read the lesson.
  - Do the review questions.
  - Check your [answers](#), Geometry 12.6.
  - Record your score out of 13.

### Lesson 174

1. Review how rotations and reflections are created and how they move around a coordinate plane.
2. When you are ready, do the questions as a test (no notes). [12.7. Chapter 12 Review](#)
3. Check your [answers](#), Geometry 12.7.
4. Record your score out of 10.

### Lesson 175

1. Review chapters 10 and 11.
2. Review chapter 10
  - [Area and Perimeter of Triangles](#)
  - [Area and Perimeter of Trapezoids](#)

- [Rhombus and Kite](#)
  - [Similar Polygons](#)
  - [Sectors and Segments](#)
3. Review chapter 11.
- [Surface area and volume of prisms](#)
  - [Surface Area and Volume of Cylinders](#)
  - [Surface Area and Volume of Pyramids](#)
  - [Surface Area and Volume of Cones](#)

### Lesson 176

1. Take the test on [chapters 10 and 11](#). (This isn't right at the moment.)
2. Record your score out of 20. Add one point to your score.

### Lesson 177

1. Review [chapters 1-6](#).
2. On Day 180 you will be taking your final exam, a test on everything you learned this year in geometry.

### Lesson 178

1. Review [chapters 7, 8 and 9](#). ([answers](#), for [8.2 #22](#), [8.4 1-6](#), [8.5](#), [9.1](#), [9.5](#))
2. There will be proofs from chapter nine that you did in the review questions, but you will be allowed to use the chapter to help you, but not your notes!

### Lesson 179

1. Review [chapters 10 and 11](#).
2. Review [Chapter 12](#), answers, [Geometry 12.7](#).

### Lesson 180

1. Take your final. (Each section is worth the number of points in parentheses, totaling 100.)
  - [Part 1](#) Write down your score. (56) ([alternate link](#) if that isn't working)
  - [Part 2 answers](#) (4)
  - Do [number 31](#) in the review questions. You may use the chapter but not the [answers](#) or your notes. (8)
  - Do [number 31](#) in the review questions. You may use the chapter but not the [answers](#) or your notes. (12)
  - Do [number 1](#) in the review questions. You may use the chapter but not the [answers](#) or your notes. (14)
  - Do [number 1](#) in the review questions. You may use the chapter but not the [answers](#) or your notes. (2)
  - Give yourself 4 points for completion.
  - Total your score out of 100.

