



**Summer Math 2016**  
**Upper School Mathematics**  
**Honors Geometry and Statistics**  
**Mr. Schwoerke**

Dear Honors Geometry and Statistics Students and Parents,

This year, students enrolled in Honors Geometry and Statistics will complete summer math work online. The learning activities listed on the following pages are to be accessed through the [IXL.com](http://IXL.com) website. **Be sure to log in with your username and password to track your progress and receive credit for your work.** This information has been emailed to your Wooster School email account.

Approach the learning activities in the order of your choosing. Work on each module for 20 minutes or until you reach 90% mastery. If, for example, you reach 90% mastery after 12 minutes, you should feel free to move onto a new topic.

It will take you about **10 hours** to complete this work. We encourage you to break this work into manageable parts. Try to tackle three activities per week. To keep track of your progress, check off each activity upon completion.

Mr. Schwoerke has the ability to view your activity log and he can see how many problems you attempt and how long you work. This is how Wooster School will track your progress over the course of the summer and develop a better understanding your mathematical background.

When you approach this work, bear in mind the Wooster School Honor Code. In this instance, the expectation is that you will complete this work independently.

If you run into any questions or confusion, please email your math teacher at:  
[karl.schwoerke@woosterschool.org](mailto:karl.schwoerke@woosterschool.org)

Good luck!

## Topics to be Covered this Summer

- ⌘ C.6 Solving Proportions: Word Problems:  
<https://www.ixl.com/math/algebra-1/solve-proportions-word-problems>
- ⌘ H.2 Distributive property: <https://www.ixl.com/math/algebra-1/distributive-property>
- ⌘ I.1 Write variable expressions:  
<https://www.ixl.com/math/algebra-1/write-variable-expressions>
- ⌘ I.4 Write variable equations:  
<https://www.ixl.com/math/algebra-1/write-variable-equations>
- ⌘ J.5 Solve advanced linear equations:  
<https://www.ixl.com/math/algebra-1/solve-advanced-linear-equations>
- ⌘ J.6 Solve Equations with variables on both sides:  
<https://www.ixl.com/math/algebra-1/solve-equations-with-variables-on-both-sides>
- ⌘ J.8 Solving Word Problems with Linear Equations:  
<https://www.ixl.com/math/algebra-1/solve-linear-equations-word-problems>
- ⌘ L.3 Solve absolute value inequalities:  
<https://www.ixl.com/math/algebra-1/solve-absolute-value-inequalities>
- ⌘ L.4 Graphing Absolute Value Inequalities:  
<https://www.ixl.com/math/algebra-1/graph-solutions-to-absolute-value-inequalities>
- ⌘ O.2 Word problems with money:  
<https://www.ixl.com/math/algebra-1/word-problems-with-money>
- ⌘ O.4 Rate of travel: word problems:  
<https://www.ixl.com/math/algebra-1/rate-of-travel-word-problems>

- ⌘ Q.2 Domain and Range of a Function:  
<https://www.ixl.com/math/algebra-1/domain-and-range-of-relations>
- ⌘ S.7 Write Equation in Slope-Intercept Form from a Graph:  
<https://www.ixl.com/math/algebra-1/slope-intercept-form-write-an-equation-from-a-graph>
- ⌘ S.11 Linear function word problems:  
<https://www.ixl.com/math/algebra-1/linear-function-word-problems>
- ⌘ S.20 Slopes of Parallel and Perpendicular Lines:  
<https://www.ixl.com/math/algebra-1/slopes-of-parallel-and-perpendicular-lines>
- ⌘ S.21 Write an equation for Parallel and Perpendicular Lines:  
<https://www.ixl.com/math/algebra-1/write-an-equation-for-a-parallel-or-perpendicular-line>
- ⌘ U.8 Solve a system of equations using substitution:  
<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-substitution>
- ⌘ U.10 Solve a system of equations using elimination:  
<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-elimination>
- ⌘ U.14 Solve a system of equations using any method:  
<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-any-method>
- ⌘ V.8 Simplifying expressions using exponents:  
<https://www.ixl.com/math/algebra-1/simplify-expressions-involving-exponents>
- ⌘ Z.10 Multiplying Polynomials:  
<https://www.ixl.com/math/algebra-1/multiply-polynomials>
- ⌘ AA.3 Factor Polynomials with lead coefficient of 1:  
<https://www.ixl.com/math/algebra-1/factor-quadratics-with-leading-coefficient-1>

⌘ AA.4 Factor Polynomials with lead coefficient other than 1:  
<https://www.ixl.com/math/algebra-1/factor-quadratics-with-other-leading-coefficients>

⌘ AA.5 Factor Polynomials: Special Cases:  
<https://www.ixl.com/math/algebra-1/factor-quadratics-special-cases>

⌘ EE.7 Simplify Radicals: Mixed Review:  
<https://www.ixl.com/math/algebra-1/simplify-radical-expressions-mixed-review>

⌘ GG.2 Simplify Complex Fractions:  
<https://www.ixl.com/math/algebra-1/simplify-complex-fractions>

⌘ GG.4 Multiply and Divide Rational Expressions:  
<https://www.ixl.com/math/algebra-1/multiply-and-divide-rational-expressions>

⌘ GG.6 Add and Subtract Rational Expressions:  
<https://www.ixl.com/math/algebra-1/add-and-subtract-rational-expressions>

⌘ GG.7 Solve Rational Equations:  
<https://www.ixl.com/math/algebra-1/solve-rational-equations>

This work was independently completed by \_\_\_\_\_.  
Student Name

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

*\*Bring this completed and signed checklist to your math class on the first day of school.*