

**2023 IXL Summer Math**  
**Geometry Students Entering Algebra II**

Please use the following skills on IXL for practice. **You will be working on the Algebra II level** because the Algebra II exercises draw on concepts previously addressed in both Algebra I and Geometry. This practice serves as a review of the topics you learned in the past year. Spend time on each skill until you achieve a **smart score of at least 85 or until you have spent 25 minutes on that section**. Keep track of your progress on the accompanying sheet and bring it with you on the first day of school next year. Your instructor will confirm your completion of the IXL practice and assign a quiz grade. This grade will reflect your completion and will count towards your Geometry class in the upcoming year. This practice will help you prepare to learn new skills at the next level.

**Quick Link:**     <https://www.ixl.com/math/algebra-2>

**Login Info:**     username: firstnamelastname584     password: falcons

**Helpful Tips:**

- If you get a question wrong, read the explanation so that you don't make the same mistake next time.
- Use pencil and paper to work out the problems.
- Stretch out the work over the course of the summer. Leaving it all to the last minute will be stressful!

Category	Code	Skill name	Smart Score/Time
Variable expressions	A	<ul style="list-style-type: none"><li>Evaluate variable expressions involving integers (A.1)</li><li>Evaluate variable expressions involving rational numbers (A.2)</li><li>Simplify variable expressions using properties (A.3)</li></ul>	
Equations	B	<ul style="list-style-type: none"><li>Solve linear equations (B.1)</li><li>Solve one-step and two-step equations: word problems (B.2)</li><li>Solve multi-variable equations (B.6)</li></ul>	
Inequalities	C	<ul style="list-style-type: none"><li>Graph a linear inequality in one variable (C.1)</li><li>Write inequalities from graphs (C.2)</li></ul>	
Functions	D	<ul style="list-style-type: none"><li>Domain and range (D.1)</li><li>Identify functions (D.2)</li><li>Evaluate functions (D.3)</li><li>Find values using function graphs (D.4)</li><li>Find the slope of a linear functions (D.9)</li><li>Graph a linear function (D.10)</li><li>Write the equation of a linear function (D.11)</li></ul>	
Factoring	J	<ul style="list-style-type: none"><li>Factor out a monomial (J.1)</li></ul>	
Polynomials	L	<ul style="list-style-type: none"><li>Add and subtract polynomials (L.2)</li><li>Multiply polynomials (L.3)</li></ul>	
Rational Functions & Expressions	O	<ul style="list-style-type: none"><li>Evaluate rational expressions I (O.2)</li></ul>	
Circles	V	<ul style="list-style-type: none"><li>Find the center of a circle (V.1)</li></ul>	

Student Name: \_\_\_\_\_

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

Parent Name: \_\_\_\_\_

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