

## 2023 IXL Summer Math

### 8<sup>th</sup> Grade Algebra Students Entering 9<sup>th</sup> Grade Honors Geometry

Please use the following skills on IXL for practice. Since you have already studied Algebra, you will be focusing on the IXL **Algebra 1 level** during the summer practice. 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-1>

**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
Numbers and operations	A	<ul style="list-style-type: none"> <li>Add and subtract rational numbers(A.4)</li> <li>Multiply and divide rational numbers (A.5)</li> <li>Square roots (A.8)</li> <li>Cube roots (A.9)</li> </ul>	
Geometry	D	<ul style="list-style-type: none"> <li>Area and perimeter: word problems (D.1)</li> </ul>	
Solve linear equations	F	<ul style="list-style-type: none"> <li>Graph inequalities (F.1)</li> <li>Solve advanced linear equations (F.10)</li> </ul>	
Coordinate plane	I	<ul style="list-style-type: none"> <li>Coordinate plane review (I.1)</li> </ul>	
Function concepts	M	<ul style="list-style-type: none"> <li>Domain and range of relations (M.2)</li> </ul>	
Linear functions	L	<ul style="list-style-type: none"> <li>Slope-intercept form: write an equation from a graph (L.5)</li> </ul>	
Integer exponents	R	<ul style="list-style-type: none"> <li>Negative exponents (R.3)</li> <li>Identify equivalent exponential expressions I (R.13)</li> </ul>	
Exponential functions	V	<ul style="list-style-type: none"> <li>Compound interest: word problems (V.9)</li> </ul>	
Polynomials	W	<ul style="list-style-type: none"> <li>Multiply polynomials to find area (W.12)</li> </ul>	
Factor polynomials	X	<ul style="list-style-type: none"> <li>GCF of monomials (X.1)</li> <li>Factor quadratics with leading coefficient 1 (X.4)</li> </ul>	_____
Quadratic equations	Z	<ul style="list-style-type: none"> <li>Solve a quadratic equation using the quadratic formula (Z.6)</li> </ul>	_____
Radical expressions	EE	<ul style="list-style-type: none"> <li>Simplify radical expressions (EE.1)</li> </ul>	_____

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

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

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

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