

Incoming Algebra Math Work (Summer 2025)**YOU MUST BE LOGGED IN WITH GOOGLE ON IXL WHEN YOU COMPLETE THIS.**

These activities review key ideas that will be needed in Algebra. You will use the **Eighth-Grade** activities on IXL. Our school's URL is: <https://www.ixl.com/signin/incarnation> (or download the app and add @incarnation after your username).

The **GOAL** for each section is to achieve a minimum **SMART SCORE of 80**.

Note: If these skills are challenging, you should be using the resources available in IXL to help you ("Learn with Example" or "Work it Out") and write self-directed notes from those resources. You will benefit from utilizing these skills and then re-attempting. If you complete more than 30 questions, you may stop. Mastering these skills will ensure you are prepared for the coming school year. If you struggle with these skills, you might consider getting a summer math tutor. Summer work should not be completed at the beginning of summer. This does not help the goal of overcoming summer slide. Please attempt to work over the entire summer on the skills.

Summer IXL is to be turned in upon return to school for a completion grade. It is highly suggested that you pace yourself following the recommended checkpoint dates below. **Your math teacher will accept your summer work until 9/5/25 for full credit.**

Suggested Due Date: Jul 7, 2025

Skill Group	Section code	Possible Activities	SmartScore	Questions Completed
Operations with Integers	Y6W	Evaluate numerical expressions involving integers		
Rational Numbers	2RC	Convert between decimals and fractions or mixed numbers		
	QP5	Put rational numbers in order		
Operations with Rational Numbers	5E3	Evaluate numerical expressions involving rational numbers		
Proportions, Ratios	ZCK	Constant of Proportionality		
	45N	Proportional Relationships		
Percents	6PB	Convert between percents, fractions, and decimals		

Suggested Due Date: Aug 8, 2025

Expressions & Properties	QZT	Evaluate multi-variable expressions		
	QP7	Add and subtract like terms		
One-Variable Equations	2AZ	Solve multi-step equations with rational coefficients		
	HZZ	Solve equations mixed review		

One-Variable Inequalities	BSF	Solve one step inequalities		
	7LF	Graph inequalities		
Square roots and cube roots	9RS	Square roots of perfect squares		

Suggested Due Date: September 5, 2025

Coordinate Plane	T6E	Coordinate plane review		
	ZBP	Find the distance between two points		
Linear Equations	DM7	Find the slope of a graph		
	ZAC	Find the slope from two points		
	W5E	Graph a line from slope-intercept form		
Data Analysis	LVG	Data analysis of two populations		
Probability	5ZY	Probability		
Two-dimensional figures	JFJ	Finding missing angles in triangles		
	R2B	Find measures of complementary, supplementary, vertical, and adjacent angles		
Geometric Measurement	ZT6	Surface area of cubes, prisms, and pyramids		
	9GB	Checkpoint: Volume		

You and your teacher will be able to see a summary of your work on the www.ixl.com site.

Optional: More than 30 problems in each section for extra practice if students and/or parents feel they need extra practice due to low scores or like the math section.

Required: Students are required to receive a SmartScore of 80 or attempt 30 problems in each section, stopping at whichever comes first. **Summer IXL is to be turned in upon return to school for a completion grade. It is highly suggested that you pace yourself following the recommended checkpoint dates below.** **Your math teacher will accept your summer work until 9/5/25 for full credit.**

Parent Signature: _____