Name_____ HR_____Password_____

Incoming Geometry Math Work (Summer 2026)

YOU MUST BE LOGGED IN WITH GOOGLE ON IXL WHEN YOU COMPLETE THIS.

These activities review key ideas that will be needed in Geometry. You will use the **Algebra 1*** 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 90**.

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 on the skills over the entire summer.*

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 9/11/26 for full credit.

Suggested Due Date: Jul 6, 2026

Skill Group	Section code	Assigned Activities	SmartScore	Questions Completed
Expressions & Properties	Q6N	Evaluate rational expressions		
	D7K	Write variable expressions		
One-Variable Equations	28N	Solve linear equations with variables on one side		
	DN6	Solve equations mixed review		
	7S7	Solve equations with variables on both sides		
Inequalities	9K8	Solving advanced inequalities		
Graphing Linear Equations	UWB	Slope intercept form: graph an equation		
	MD5	Find the slope from two points		
	U6U	Standard Form: Graph from an equation		
	PPE	Point slope form: Write an equation		
Functions	R96	Evaluate a Function		
	D6H	Evaluate an exponential function		
	5SH	Write an equation for a parallel or perpendicular line		
Systems of Equations	TSS	Solve a system of equations by graphing		
	A48	Solve a system of equations with		

Suggested Due Date: Jul 6, 2026				
		elimination		
	8P9	Solve a system of equations using substitution		

Suggested Due Date: August 10, 2026				
Skill Group	Section code	Assigned Activities	SmartScore	Questions Completed
Rational Exponents and Radicals	KT5	Evaluate integers using positive rational exponents		
	ZFF	Simplify radical expressions		
	82V	Simplify radical expressions with variables		
	MMG	Solve radical equations 1		
Simplify Exponents	SCM	Negative exponents		
	RWY	Power rule for exponents		
	48P	Simplify exponential expressions using the multiplication and division rules		
Exponential Functions	5QL	Graph Exponential Functions		
Polynomial Operations	58A	Multiply polynomials		
	2B7	Checkpoint: Polynomial Operations		
	LY7	Divide polynomials using long division		
Factoring Quadratics	S9P	Factor quadratics with leading coefficient 1		
	7ED	Factor quadratics with other leading coefficients		
	56E	Factor quadratics: special cases		
Quadratic Functions	CSS	Solve a quadratic equation by factoring		
	HW8	Characteristics of Quadratic Functions: Graphs		
	XCL	Solve a quadratic equation by completing the square		

Suggested Due Date: August 10, 2026				
	XCF	Solve a quadratic equation using the quadratic formula		

Suggested Due Date: September 11, 2026				
Skill Group	Section code	Assigned Activities	SmartScore	Questions Completed
Domain and Range of Functions	UXG	Domain and Range of Square Root Functions: Graphs		
	ANC	Domain and Range of Exponential Functions: Graphs		
	NV7	Domain and Range of Absolute Value Functions: Graphs		
Interpreting categorical data (scatter plots, regressions)	8BS	Interpret Scatter Plots		
	SEQ	Interpret Regression Lines		
Two-dimensional figures	JFJ	Finding missing angles in triangles* *8th Grade Skill		
	R2B	Find measures of complementary, supplementary, vertical, and adjacent angles* *8th Grade Skill		
Pythagorean Theorem	KKT	Pythagorean Theorem *ACT Math Skill		
	M68	Converse of the Pythagorean Theorem: is it a right triangle? *ACT Math Skill		
Square Roots and Cube Roots	7PZ	Square Roots		
	RNT	Cube Roots		
Linear, Quadratic, and Exponential Models	DHB	Identify linear, quadratic, and exponential functions from graphs		
	SP5	Identify linear, quadratic, and exponential functions from tables		

*Items highlighted with an * are 8th grade IXL skills or ACT Math skills and are the exception. Please make sure that for those items you switch to 8th grade or ACT Math IXL and then switch back to Algebra 1 for everything else.

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

Optional: More than 40 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 90 or attempt 40 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 9/11/26 for full credit.**

Parent Signature: _____