



Rising 8th Grade Geometry Summer Math Review:

All rising 8th grade students who will be taking Geometry will complete an IXL Skills Journal this summer to better prepare for an advanced class. All Skills will be **due on Tuesday, August 29th by 11:59 PM**. Students will receive credit in Trimester 1.

IXL Skills Journal

- Journals should be prepared at home.
 - You may use a One Subject Notebook OR Composition Notebook (your choice) to keep track of your work as you complete IXL skills.
 - Complete the skills below to a **smart score of 85 or higher**.
 - If you have already completed a skill to 85, complete TWO MORE QUESTIONS in your journal, keeping the score above 85. If you answer incorrectly, and the score drops below, keep going until it's back to 85. This may require more than two questions.
 - **Label each section in your notebook with a heading**, using the IXL Skill Number + Title.
Example: A.13: Classify Numbers
 - Show all work, notes or steps for the completed IXL skills in your journal, numbering how many problems you completed.
 - Feel free to add any notes, drawings, or other helpful tools, as needed.

IXL Skills for Rising 8th Grade Geometry are in the **ALGEBRA TAB** in IXL:

✓	Skill #	Title	(Note: If the IXL Skill # changes during summer, please make sure you choose the skill with the same TITLE. Clickable links available at stsashburn.com)
	A.13	Classify numbers	
	B.9	Simplify variable expressions involving like terms and the distributive property	
	C.4	Properties of equality	
	C.15	Create linear equations with no solutions or infinitely many solutions	
	C.18	Rearrange multi-variable equations	

D.1	Area and perimeter: word problems
D.2	Volume
D.3	Surface area
E.1	Scale drawings: word problems
E.3	Convert rates and measurements: metric units
E.6	Rate of travel: word problems
F.15	Graph solutions to compound inequalities
F.16	Checkpoint: Solve linear equations and inequalities
H.4	Graph solutions to absolute value inequalities
I.3	Midpoint formula: find the endpoint
I.4	Distance between two points
J.2	Write direct variation equations
J.6	Write and solve inverse variation equations
K.4	Find a missing coordinate using slope
L.5	Slope-intercept form: write an equation from a graph
L.9	Write equations in standard form
L.11	Standard form: graph an equation
L.14	Point-slope form: graph an equation
M.1	Relations: convert between tables, graphs, mappings, and lists of points
M.3	Identify independent and dependent variables
M.4	Identify functions
M.14	Identify graphs: word problems
N.9	Compare linear functions: tables, graphs, and equations
O.15	Solve a system of equations using any method: word problems
P.7	Solve systems of linear inequalities by graphing
R.9	Simplify exponential expressions using the multiplication and division rules
R.10	Simplify exponential expressions using the power rule

R.13	Identify equivalent expressions involving exponents
T.4	Multiply numbers written in scientific notation
T.5	Divide numbers written in scientific notation
W.1	Polynomial vocabulary
W.15	Checkpoint: Polynomial operations
X.9	Factor polynomials
Y.1	Characteristics of quadratic functions: graphs
Y.8	Match quadratic functions and graphs
Y.9	Domain and range of quadratic functions: graphs
Z.11	Checkpoint: Quadratic equations
EE.3	Simplify radical expressions involving fractions
EE.6	Simplify radical expressions using the distributive property
EE.7	Simplify radical expressions using conjugates
EE.8	Simplify radical expressions: mixed review
FF.2	Domain and range of square root functions: graphs
GG.3	Multiply and divide rational expressions
GG.4	Add and subtract rational expressions
GG.6	Solve rational equations
JJ.5	Write equations for lines of best fit
KK.1	Theoretical probability

RESOURCES FOR ALL STUDENTS (if you need a refresher):

- Math Antics are the BEST Middle School Videos! (Mathantics.com)
- IXL Lessons (ixl.com)
- Khan Academy (khanacademy.com)
- Math Is Fun (mathsisfun.com)