

Dear Rising 8th Graders,

Below is your summer math work. There are two sets of skills. The first you are expected to master over the summer. The second will assist you if you are struggling with the first. You are not required to master the 2nd set of skills, but if you need help, please use them.

Note: You will be using the **Algebra I** section of IXL.

Skill Set #1: Mastery Required (Smart Score of 100)

- **Operations:**
 - A1.B.4: Add and Subtract Rational Numbers
 - A1.B.5: Multiply and Divide Rational Numbers
 - A1.B.6: Evaluate Numerical Expressions involving Rational Numbers
 - A1.B.7: Evaluate Variable Expressions involving Rational Numbers
- **Properties:**
 - A1.H.3: Simplify Variable Expressions using Properties
- **Coordinate Plane:**
 - 8.G.1: Coordinate Plane Review
 - 8.G.2: Midpoints
 - 8.G.3: Distance between Two Points
- **Equations:**
 - A1.J.6: Solve Equations with Variables on Both Sides
 - A1.J.10: Solve Linear Equations-Word Problems
 - A1.J.11: Solve Linear Equations-Mixed Review
- **Problem Solving:**
 - A1.O.1: Word Problems-Mixed Review

Skill Set #2: Assistance Skills

- **Operations:**
 - A1.B.1: Add, Subtract, Multiply, and Divide Integers
 - A1.B.2: Evaluate Numerical Expressions involving Integers
 - A1.B.3: Evaluate Variable Expressions involving Integers
- **Properties:**
 - A1.H.1: Properties of Addition and Multiplication
 - A1.H.2: Distributive Property
- **Equations:**
 - A1.J.1: Model and Solve Equations using Algebra Tiles
 - A1.J.2: Write and Solve Equations that Represent Diagrams
 - A1.J.3: Solve One-Step Linear Equations
 - A1.J.4: Solve Two-Step Linear Equations
 - A1.J.5: Solve Advanced Linear Equations

You should be ready to take an assessment the first week of school that will show your mastery of the skills above.

Enjoy your summer and see you in August!

The Middle School Math Team

Please turn in on the first day of school.

Parent Signature to verify that all the above work has been completed. Please check IXL.

_____ Date: _____