

## Algebra I Summer Assignment



May 2018

Dear 2018-2019 Algebra I Student,

**IF YOU ARE NEW TO SDS:** You should receive your username and password information from IXL via email. Make sure you write them down somewhere!

To get started on IXL, follow these steps:

1. Go to <https://www.IXL.com>
2. Enter your username and password and click the right arrow button to sign in.
3. Click on *Math* at the top of the page and navigate to the class (Eighth-grade skills). Then, click on *See all 314 eighth-grade skills*.
4. Find a specific skill to practice by selecting the skill from the bulleted list below. You can place your mouse over any skill to see a sample question and then click on the link to begin. As you know, IXL is designed to help you learn at your own pace. The website is adaptive and adjusts to your demonstrated ability level. It also saves all of your results so you can monitor your progress anytime by clicking on *Reports* at the top of the page. In addition, we use the IXL website as a supplement to our coursework throughout the school year.

### **ALL STUDENTS:**

This summer, your assignment is to attain a SmartScore of at least 85 for each assigned module. See below for the assigned modules. Grades will be awarded based upon your SmartScore *in each module*. Each 85-or-more SmartScore will be counted as 100% completion.

The purpose of these summer problems is to help you retain the mathematical concepts and procedures that you have learned in previous classes. Therefore, if you feel that you need more practice in a particular module, I encourage you to work towards a SmartScore of 100. You may also explore unassigned topics if you choose. The summer assignment will be counted as a **quiz score** towards your first quarter average. I'm looking forward to having you in the algebra class next year!

Ms. V.

## **Assignment**

Earn a SmartScore of at least 85 from each bullet point by **August 22** (the first day of school).

**IMPORTANT:** If you have done any of the following topics before, you need to click on each of those topics and do at least one problem in order for IXL to record that you've done them in the time period (from when you receive this to August 22, 2018, your first day back) that Ms V will be checking for your quiz score. In this way, you won't have to do the topics again, but they will still be included in your assessment.

### **Under "Eighth-grade skills"**

- A.2: Divisibility rules
- A.5: Greatest common factor
- A.6: Least common multiple
- B.3: Absolute value and opposite integers
- C.3: Add and subtract integers
- C.4: Add and subtract three or more integers
- C.7: Multiply and divide integers
- C.8: Evaluate numerical expressions involving integers
- E.2: Add and subtract rational numbers
- E.5: Multiply and divide rational numbers
- E.9: Evaluate numerical expressions involving rational numbers
- F.2: Evaluate exponents
- F.4: Exponents with negative bases
- F.6: Understanding negative exponents
- F.10: Multiplication and division with exponents
- F.11: Power rule
- F.12: Evaluate expressions using properties of exponents
- H.10: Solve proportions
- R.1: Pythagorean theorem: find the length of the hypotenuse
- R.2: Pythagorean theorem: find the missing leg length
- V.14: Add and subtract like terms
- V.12: Multiply using the distributive property
- W.11: Solve equations: mixed review
- X.8: Solve multi-step inequalities
- Y.1: Find the slope of a graph
- Y.2: Find the slope from two points

### **PLEASE NOTE**

Sometimes over the summer, IXL updates its website. This means that the topic identification code (for example, the **F.11** currently associated with the topic "Power rule") might change. If this happens, you are responsible for finding the same topic by its name (**Power rule**) rather than by its ID code. If you are not sure, communicate with some of your buddies to confirm the new number.