

## 6th Grade Math Summer Assignment 2020/2021



Dear Rising 6<sup>th</sup> grade students,

I hope you are almost ready to enjoy a super fun summer and are looking forward to beginning sixth grade. In the middle school, we have been working to develop a summer review program that will help you be ready to start the next school year off strong in math.

One of the major keys to success in math is review and practice. To provide practice, we will continue to use IXL. This is a comprehensive math review site with an unlimited number of practice questions in thousands of skills, and it can be accessed using the Internet.

To get started on your computer, follow these steps:

1. Go to <https://www.IXL.com>
2. Enter your username and password in the upper right corner and click the right arrow button to sign in. **Note: If you are new to SDS, your username and password will be emailed to you by IXL. When you login, don't forget the @sds at the end of your username.**
3. Click on *Math* at the top of the page and navigate to the 5<sup>th</sup> class list of topics.
4. Find a skill to practice by doing ***one of the following***.
  - Select a specific skill to practice from your assigned list of review 5<sup>th</sup> grade topics. You can place your mouse over any skill to see a sample question and click on the link to begin.
  - Go to the *Awards* section. Each grade level presents challenges for you to conquer and virtual prizes to be uncovered. Place your mouse over any challenge to begin.

IXL is designed to help you learn at your own pace. The website is adaptive and will adjust to your demonstrated ability level. The site also **saves all of your results**, so you can monitor your progress anytime by clicking on the *Reports* at the top of the page.

This summer, your assignment is to attain a SmartScore of 85 for each assigned topic to be completed no later than September 8, 2020.

Grades will be awarded based upon your SmartScore *on each topic*. See FAQs for grading.

(Notice this is a *review* of what you learned this past school year.)

### 5th grade level – required topics

- 5 - A.10: Understanding integers
- 5 - A.11: Compare integers
- 5 - B.1: Add and subtract whole numbers up to billions
- 5 - C.16: Multiply 2-digit numbers by larger numbers
- 5 - D.16: Divide 4-digit numbers by 2-digit numbers
- 5 - E.2: Evaluate exponents
- 5 - G.10: Compare decimal numbers
- 5 - G.12: Convert fractions to decimals
- 5 - G.14: Convert decimals to fractions
- 5 - H. 3: Add and subtract decimal numbers
- 5 - I. 8: Multiply two decimals: products up to hundredths
- 5 - K.5: Write fractions in lowest terms
- 5 - K.6: Convert between improper fractions and mixed numbers
- 5 - L.5: Add and subtract mixed numbers with like denominators
- 5 - L.8: Add fractions with unlike denominators
- 5 - M.20: Multiply two fractions
- 5 - M.34: Multiply two mixed numbers
- 5 - N. 9: Divide two fractions
- 5 - R.2: Convert between percent, fractions, and decimals
- 5 - U.2: Graph points on a coordinate plane
- 5 - V. 1: Write variable expressions
- 5 - V. 3: Evaluate variable expressions
- 5 - AA.8: Measure angles with a protractor
- 5 - EE.7: Area of triangles
- 5 - EE.12: Area and perimeter: word problems

### CHALLENGE PROBLEMS:

You may earn bonus points for completing one or more of the topics listed on the following page. You may not substitute a challenge topic for a required topic. **Note that you must complete the 25 required topics listed under 5<sup>th</sup> Grade Math before you may earn bonus points.**

### 6th grade level Challenge Bonus Topics - SmartScore of 85.

- 6 - M.1 Understanding integers
- 6 - M.7 Put integers in order
- 6 - M.9 Absolute value and opposite integers: word problems

6 - N.2	Add integers
6 - N.3	Subtract integers using counters
6 - N.8	Multiply integers: find the sign
6 - N.10	Divide integers: find the sign
6 - O.10	Add, subtract, multiply, or divide two integers
6 - O.11	Evaluate numerical expressions involving integers
6 - BB.1	Does (x, y) satisfy an equation?


**\*PLEASE READ**

Sometimes the IXL website updates their topic lists during the summer. Some of the topic ID numbers (for example, the Z.3 currently associated with the topic, "Angles") might change. If this happens, you are responsible for finding the same topic by its name (Angles) rather than by its ID number. If the topic is completely removed, then you will not be responsible for that topic. **IF YOU HAVE ANY OPERATIONAL (NOT JUST MATH) ISSUES WITH IXL OVER THE SUMMER, PLEASE EMAIL Ms. Aiken: donlyn.aiken@sdsgriffin.org**

**Frequently asked questions about Summer Math Review on IXL**

*Question 1: How can I track my progress?*

IXL keeps track of your progress. Your SmartScore will be in parentheses after the module name, as shown below.

 **N.8** Review: properties of quadrilaterals (82)

*Question 2: How much is this worth towards my first quarter grade?*

In math class, you will have tests and quizzes. This is the grading scheme for the IXL summer work.

*Question 3: What if I have already completed an assigned topic?*

You must redo the assignment to receive credit. Assignments will be graded based on the date range of June 1, 2020 to September 8, 2020. **All assigned topics must be completed during that time frame to receive credit.**

25 topics times 4 points per topic = 100 points total

Challenge topics times 2 points per topic = 20 extra credit points total

The summer assignment grade **will amount to a quiz grade**, and it will count toward your first quarter average.