

6th Grade Math Summer Assignment 2018/2019



Dear Rising 6th 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 5th 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 5th 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 3, 2018.

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.9: Understanding integers
- 5 - A.10: Comparing integers
- 5 - B.1: Add and subtract whole numbers up to billions
- 5 - C.15: Multiply 2 digit numbers by larger numbers
- 5 - D.13: Divide larger numbers by 2 digit numbers
- 5 - E.2: Evaluate exponents
- 5 - F.3: Prime factorization with exponents (“factor tree”)
- 5 - G.10: Compare decimal numbers
- 5 - G.12: Convert fractions to decimals
- 5 - G.13: Convert decimals to fractions
- 5 - H. 3: Add and subtract decimal numbers
- 5 - I. 8: Multiply two decimals
- 5 - K.6: Convert between improper, proper, and mixed numbers
- 5 - L.5: Add and subtract mixed numbers with like denominators
- 5 - L.8: Add fractions with unlike denominators
- 5 - M.15: Multiply two fractions
- 5 - N. 9: Divide two fraction (“flip and dip”)
- 5 - Q. 2: Write a ratio: word problems
- 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 - X.1: Calculate mean, median, mode, and range
- 5 - AA.7: Measure angles with a protractor
- 5 - EE.13: Volume of cubes and rectangular prisms

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 5th Grade Math before you may earn bonus points.

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

6 - M.1	Understanding integers
6 - M.3	Absolute value and opposite integers
6 - M.6	Put integers in order
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.

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.