

# Pre-algebra Summer Assignment 2021

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Dear Rising Pre-Algebra students and parents,

One of the major keys to success in math is *review and practice*. Your summer math review will be topics assigned on the IXL Math website. IXL is designed to help you learn and review at your own pace. The website is adaptive and will adjust to your demonstrated ability level. You can work for a while, and if you need to stop, you won't have to start over. IXL will record your progress.

The following steps will help you get started on any device with internet accessibility:

1. Go to <https://www.IXL.com>
2. Enter your IXL 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. Email [lacy.hines@sdsgriffin.org](mailto:lacy.hines@sdsgriffin.org) if you have technical issues or if you need a password.
3. Scroll down and click on 6<sup>th</sup> grade math skills.
4. Complete the skills listed on the back of this sheet.

You must attain a SmartScore of 85 for each assigned topic. Once you reach 85 on a topic, you get credit for the entire assignment-no need to go all the way to a score of 100 unless you just want the extra practice.

## **\*BE CAREFUL!\***

Sometimes the IXL website updates their topic lists during the summer. They will keep the name of the topic but might change the number associated with it. Please be sure to complete the assignments by NAME, even if the number doesn't match up. Be sure that you are in the correct grade level too (6<sup>th</sup>). If the topic is completely removed, then you will not be responsible for that topic.

## Grading:

- 25 assigned topics (4 points each)
- 3 extra credit topics (2 points each)



**Your topics are listed under “6<sup>th</sup> Grade math topics”**

(Remember that this is review of what you learned in in the grade you just completed and preparation for work in the upcoming school year.)

**Sixth grade math topics: REQUIRED**

- 6-C-1: Divisibility rules
- 6-D.1: Write multiplication expressions using exponents
- 6-E.3: Prime or composite
- 6-E.6: Prime factorization
- 6-E.8: Greatest common factor
- 6-E.10: Least common multiple
- 6-I.6: Compare fractions with like and unlike denominators
- 6-I.11: Convert between decimals and fractions
- 6-J.3: Add and subtract fractions with unlike denominators
- 6-K.12: Multiply mixed numbers and whole numbers
- 6-L.7: Divide fractions and mixed numbers
- 6-M.1: Understanding integers
- 6-M.5: Understanding absolute value
- 6-R.6: Write an equivalent ratio
- 6-R.9: Unit rates
- 6-X.2: Graph points on a coordinate plane
- 6-Y.1: Write variable expressions: one operation
- 6-Y.17: Add and subtract like terms
- 6-EE.2: Which figure is being described?
- 6-FF.1: Perimeter
- 6-FF.6: Area of triangles
- 6-FF.10: Area of quadrilaterals
- 6-FF.18: Volume of cubes and rectangular prisms
- 6-FF.21: Surface area of cubes and rectangular prisms
- 6-GG.23: Box plots

**Sixth grade math topics: Optional Extra Credit**

- 6-Z.1: Does  $x$  satisfy an equation?
- 6-Z.4: Identify expressions and equations
- 6-AA.1: Solutions to inequalities

**All of the assigned topics must be completed by September 1, 2021.**

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