

**2021 Summer Math Assignment:
Part 1 – IXL
For Students Entering 8th Grade**

This summer, rising 8th grade students should do **15 minutes of IXL practice each week**. The topics/skills will be found under the title **“Seventh Grade Math,”** and they are:

- A. Number Theory: A1, A2, A3, A4, A5, A6, A7, A9, A10
- B. Integers: B1, B3, B4, B5, B6.
- C. Operations with Integers: C3, C6, C9, C10, C11, C13, C15, C17, C18, C19, C20
- E. Operations with Decimals: E1, E2, E3, E4, E5, E6, E8, E9, E11
- F. Fractions & Mixed Numbers: F2, F3, F5, F6, F8, F9
- G. Operations with Fractions: G1, G2, G3, G4, G5, G7, G9, G10, G11, G12, G13, G14, G16, G18
- H. Rational Numbers: H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H13, H14, H15
- I. Exponents & square roots: I2, I4, I5, I6, I7, I8, I9
- P. Coordinate Plane: P1, P2, P3
- Q. Number Sequences: Q2, Q7
- R. Expressions & Properties: R1, R2, R4, R5, R6, R7, R8, R10, R11, R14, R15, R17, R18, R19
- S. One-Variable Equations: S1, S2, S4, S5, S6, S7, S8, S9
- U. Two-variable Equations: U1, U2, U3, U5, U7, U8

You are to select as many of these topics as possible and practice them. Remember, the purpose of this assignment is to keep these skills fresh, so that you will be ready for Algebra 1 in the fall.

Keep track of which topics/skills you practice each week, and for how long you practice each one. Enter the information each week on the chart found on the next page carefully. **At the end of the week, your parent/guardian should initial to indicate the “Total Minutes” for the week is correct. I will also be checking over the summer to see who is – AND IS NOT – working on the assignment!**

This chart is to be turned in on the first day of math class in September, and will count as your first grade for the school year.

YOU MUST LOG IN WITH YOUR PERSONAL IXL PASSWORD! NO “GUEST” LOGINS!!! THIS IS THE ONLY WAY YOU WILL GET CREDIT FOR YOUR TIME AND EFFORT!!!

IF YOU HAVE TROUBLE AT ANY TIME, SEND AN EMAIL TO MR. MILLER – REMEMBER TO USE YOUR SCHOOL EMAIL ADDRESS!!!

**2021 Summer Math Assignment:
Part 2 – Hidden Figures
For Students Entering 8th Grade**

Once you have read the book Hidden Figures by Margot Lee Shetterly, in addition to the assignment given to you for Literature on it, you **MUST** complete the following mini-project for math.

Hidden Figures Biography Project:

Choose one of the three main characters – Dorothy Vaughan, Mary Jackson, or Katherine Johnson - in the book Hidden Figures and write a two-page biography about her.

The paper should contain the following details:

- Dates of her life
- Where she lived
- (At least) 4 things that demonstrate why she is an important figure in the history of mathematics or STEM fields
- A general summary, containing at least three facts, of her family life (ex: if they were married, had children, had a profession other than mathematician)
- A proper bibliography
- The paper **MUST** be typed (font size 12) and may have either “normal” or “no” spacing, and be 2 pages in length (**NOT** including the bibliography)

Your primary source should be the book Hidden Figures. If you feel the need to look up additional information, you may find the following sites useful:

<http://www-groups.dcs.st-and.ac.uk/~history/BiogIndex.html>

<http://www.agnesscott.edu/lriddle/women/women.htm>

<http://math.com/students/mathematicians.html>