

Incoming 8<sup>th</sup> Grade:

IXL Advanced Mathematics Summer Assignment

Due: Friday, August 16

**What is IXL:**

IXL is an online practice program. The program will allow us to individualize the learning experience for students so that they can work at their own pace to reinforce the essential content necessary for the upcoming school year.

**How to sign in:**

Your child can sign in from home by visiting [www.ixl.com](http://www.ixl.com) on any computer and entering the username and password provided. There are even iPad and Android apps to allow your child to practice on the go.

**Assignments:**

The following are the assignments to be completed with a minimum **smart score of 90**. The Smart Score takes into account not only the number of questions a student has answered correctly and incorrectly, but also the difficulty of the problems and the student's ability to answer correctly with consistency.

Assignments can be found under the learning tab for 8<sup>th</sup> grade.

1. [Evaluate negative exponents \(8-F.7\)](#)
2. [Convert between standard and scientific notation \(8-G.1\)](#)
3. [Find the constant of proportionality from a graph \(8-I.4\)](#)
4. [Find the slope from two points \(8-Y.2\)](#)
5. [Solve equations: mixed review \(8-W.11\)](#)
6. [Solve a system of equations by graphing \(8-AA.2\)](#)
7. [Identify functions \(8-Z.1\)](#)
8. [Complete a table for a linear function \(8-Z.7\)](#)
9. [Find the slope of a graph \(8-Y.1\)](#)
10. [Find the slope from two points \(8-Y.2\)](#)
11. [Find the slope of a linear equation \(8-Y.4\)](#)
12. [Pythagorean theorem: find the length of the hypotenuse \(8-R.1\)](#)