

Dear rising 8<sup>th</sup> grade students (SHEALY) and parents,

The math summer work for this year will be done using the IXL app or the website [www.ixl.com](http://www.ixl.com). The student username is first initial last name (all lower case) @charlestownday. The password is the student's "P" number that they use to check out books.

I have chosen 20 objectives, some from 6<sup>th</sup> grade and some from 7<sup>th</sup> grade. (See the list below.) These are all skills that each student must have mastered before entering Algebra I. To complete an objective, a student must achieve a Smart Score of 90. Some objectives may take 10 minutes or less to complete, while others may take 30 minutes or more.

Students should expect to use paper and pencil while working on the objectives. Working slowly and carefully is the quickest way to master an objective. Rushing and making careless errors actually makes the process take longer.

If a student is struggling to complete an objective, they should seek help from an adult. Missing many problems in a row just makes it harder to reach a 90 Smart Score. IXL explains to a student what they did wrong each time they miss a problem. Students can also use [www.khanacademy.com](http://www.khanacademy.com) for explanations of skills. If a student does not know how to complete these skills, then they are not ready for Algebra I. Further tutoring may be necessary.

According to the CDS handbook, students will face academic and disciplinary consequences if the work is incomplete. By completing this summer assignment, your student demonstrates his/her responsibility for being prepared for eighth grade.

Thank you!

Laurin Shealy

(Scroll down.)

IXL Math Objectives for Mrs. Shealy's Rising 8<sup>th</sup> Graders:

6<sup>th</sup> grade M3: absolute value and opposites

6<sup>th</sup> grade M6: ordering integers

6<sup>th</sup> grade X1: objects on a coordinate plane

6<sup>th</sup> grade J3: adding and subtracting fractions

6<sup>th</sup> grade K1: fractions of whole numbers

6<sup>th</sup> grade K6: multiplying fractions

6<sup>th</sup> grade N4: subtracting integers

6<sup>th</sup> grade N9: multiplying integers

6<sup>th</sup> grade O10: + - x ÷ integers

6<sup>th</sup> grade Y6: terms and coefficients

\*6<sup>th</sup> grade S2: fractions, decimals, percents\* (This one will take a while. Use paper and pencil and look up the processes if you need to.)

7<sup>th</sup> grade D4: rounding decimals

7<sup>th</sup> grade F2: equivalent fractions

7<sup>th</sup> grade F3: fractions in lowest terms

7<sup>th</sup> grade U5: complete a table

7<sup>th</sup> grade S1: which x satisfies equation

7<sup>th</sup> grade S6: 2-step equations (Work slowly on paper.)

7<sup>th</sup> grade T5: solve and graph inequality (If you multiply or divide by a negative, change the direction of the inequality sign.)

7<sup>th</sup> grade R4: evaluate expressions (Use paper. Use order of operations and integer rules.)

7<sup>th</sup> grade I.8: expressions with exponents (Use paper. Use order of operations and integer rules.)