



# Charleston Day School

## Summer Math 2026 Rising 8th Grade (Accelerated)

The math summer work for this year will be done on IXL using the app or the website [www.ixl.com](http://www.ixl.com). The student username is first initial last name (all lower case) @charlestownday. For most students, their password is the “p” number that they use to check out books. For help with passwords, please e-mail [laurin.shealy@charlestownday.org](mailto:laurin.shealy@charlestownday.org).

We have chosen 20 objectives, some from the 7th grade section and some from the 8th grade section. These are all skills that each student must have mastered before entering 8th grade math. To complete an objective, a student must achieve a Smart Score of 90. Some 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 most of 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.

According to the CDS handbook, students will face academic and disciplinary consequences if the work is incomplete. By completing this assignment, you show responsibility for being prepared for eighth grade.

Thank you,

The CDS Math Team

## Rising 8th Grade (Accelerated Algebra I)

### 7th Grade Title

expressions involving integers  
operations with decimals word problems  
expressions involving decimals  
word problems fractions/mixed numbers  
expressions involving fractions  
add and subtract rational numbers  
multiply and divide rational numbers  
expressions involving exponents  
percents, fractions, decimals  
percent of change word problems

### Shortcut Search

7YN  
TGN  
FNM  
KR7  
XXQ  
GKU  
BXW  
D7P  
2HW  
54S

### 8th Grade Title

evaluate radical expressions  
add/subtract linear expressions  
equations with variables on both sides  
multi-step inequalities  
slope from 2 points  
equation from slope and y-intercept  
convert to slope-intercept form  
add/subtract polynomials  
multiply/divide monomials  
powers of monomials

### Shortcut Search

D8J  
QCY  
ZYL  
6AZ  
ZAC  
WHP  
NKM  
W75  
85P  
2CU