



# Summer Math

Dear incoming 9th Graders entering Pre-Algebra in the High School:

Attached you will find your list of skills to practice this summer.

**Please complete all skills on the attached sheet.**

**Please note - IXL cannot be started until after July 5. All accounts will be rolled over and previous work will be deleted.**

Please follow these directions:

- Log in to IXL using your username and password. Remember you must log in from the [cliffsidepark.edu](http://cliffsidepark.edu) website. Do not Google IXL and attempt to log in. It may not work. If you do not have your username and password, or have any questions, please contact [mclarke@cliffsidepark.edu](mailto:mclarke@cliffsidepark.edu).
- Go to the **8th Grade skills tab** and complete the skills as indicated on the attached sheet.
- In order to achieve mastery, you must obtain a score of 85 or better. You may do as many problems as necessary - no limits!
- Skills must be completed before the first full day of school.
- You will be tested on these skills in the first full week of September.

Good luck and see you in September!

9th grade Students entering Pre-Algebra in the HIGH SCHOOL  
GRADE 8 Skills to Review:

1. Rational numbers

1. **D.1** Write fractions in lowest terms
2. **D.2** Least common denominator
3. **D.3** Round decimals and mixed numbers
4. **D.4** Convert between decimals and fractions or mixed numbers
5. **D.5** Identify rational and irrational numbers
6. **D.6** Absolute value of rational numbers
7. **D.7** Compare rational numbers
8. **D.8** Put rational numbers in order

## Operations with rational numbers

1. **E.1** Reciprocals and multiplicative inverses
2. **E.2** Add and subtract rational numbers
3. **E.3** Add and subtract rational numbers: word problems
4. **E.4** Apply addition and subtraction rules
5. **E.5** Multiply and divide rational numbers
6. **E.6** Multiply and divide rational numbers: word problems
7. **E.7** Apply multiplication and division rules
8. **E.8** Apply addition, subtraction, multiplication, and division rules
9. **E.9** Evaluate numerical expressions involving rational numbers