



# Summer Math

Dear incoming 8th Graders:

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

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

**Please note - IXL cannot be started until after July 6. 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 80 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!

Middle School Math Department

## IXL Topics for students entering 8th grade

Go to the 8th grade tab and complete the following assignments

### Number theory

1. [A.1 Factors](#)
2. [A.2 Divisibility rules](#)
3. [A.3 Prime or composite](#)
4. [A.4 Prime factorization](#)
5. [A.5 Greatest common factor](#)
6. [A.6 Least common multiple](#)
7. [A.7 GCF and LCM: word problems](#)
8. [A.8 Sort factors of numerical expressions](#)
9. [A.9 Classify numbers](#)

### Integers

1. [B.1 Integers on number lines](#)
2. [B.2 Graph integers on horizontal and vertical number lines](#)
3. [B.3 Absolute value and opposite integers](#)
4. [B.4 Compare and order integers](#)
5. [B.5 Integer inequalities with absolute values](#)

### Operations with integers

1. [C.1 Integer addition and subtraction rules](#)
2. [C.2 Add and subtract integers using counters](#)
3. [C.3 Add and subtract integers](#)
4. [C.4 Add and subtract three or more integers](#)
5. [C.5 Add and subtract integers: word problems](#)
6. [C.6 Integer multiplication and division rules](#)
7. [C.7 Multiply and divide integers](#)
8. [C.8 Evaluate numerical expressions involving integers](#)

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## Ratios, rates, and proportions

1. [H.1 Understanding ratios](#)
2. [H.2 Identify equivalent ratios](#)
3. [H.3 Write an equivalent ratio](#)
4. [H.4 Equivalent ratios: word problems](#)
5. [H.5 Unit rates](#)
6. [H.6 Compare ratios: word problems](#)
7. [H.7 Solve proportions: word problems](#)
8. [H.8 Do the ratios form a proportion?](#)
9. [H.9 Do the ratios form a proportion: word problems](#)
10. [H.10 Solve proportions](#)