



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 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**.
- 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](#)

Continued on back

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