

IXL Summer Assignment - Students Entering the 8th Grade

Complete each IXL topic on the **Eighth Grade Math Level** and with a smart score of 100% to receive credit. The IXL assignment is worth 50 points and is due on **Monday, September 12, 2022** at 7 am. **A zero will be issued if the assignment is not completed by the due date.** Please plan accordingly as you have the entire summer to work on this assignment.

The topics are as follows: ** If IXL changes the topic codes over the summer – please go by topic name
Number Theory

- A.1 Factors
- A.2 Divisibility rules
- A.3 Prime or composite
- A.4 Prime factorization
- A.5 Greatest common factor
- A.6 Least common multiple
- A.7 GCF and LCM: word problems
- A.9 Classify numbers

Operations with Integers

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

Rational Numbers

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

Operations with Rational Numbers

- E.2 Add and subtract rational numbers
- E.5 Multiply and divide rational numbers

Ratios, Rates, and Proportions

- H.5 Unit rates

Expressions and Properties

- V.13 Multiply using the distributive property

Are You Ready? Worksheet

Complete the following Are You Ready Worksheet. This assignment will be worth 50 points and will be collected on **Monday, September 12, 2022. A zero will be issued if the assignment is not completed by the due date.** Please plan accordingly as you have the entire summer to work on this assignment.

All work must be written out neatly and shown on loose leaf paper or no credit will be given for that math question. All answers should be written on the answer sheet and please use the graphs provided to answer questions 46, 47 and 48. Also, for numbers 49 and 50, please write the inequality on the line and use the number line to the right to graph the inequality.

Staple all the paper work together (answer sheet, the Are You Ready worksheet, and the loose leaf paper with all math work) with the answer sheet on top.