

Academy of Greatness and Excellence

2021-2022

8th Grade IXL Summer Math Assignment



Assalamu Alaikum WRWB Dear Students,

Students who completed 7th grade at AGE and asked to complete the summer work for Math must complete all the assignments listed below before the first day of school.

Student Expectations:

- ✓ Each student must **get a smart score of 90% for each skill assigned.**
- ✓ Students should log on to <https://www.ixl.com/signin/age> and complete the assigned skills according to grade level.
- ✓ The user id and password will be the same as provided to you by your AGE teachers.
- ✓ All IXL assignments are to be completed before **September 01, 2021.**
- ✓ **Usage of calculator is not allowed.**

Practice, excel, and have a great summer!

Directions:

- Login to your account.
- Select Grade 8 and find the following listed assigned work. Even if you had done some of the listed lessons earlier, you will still need to do it again. You must score a smart score of at least 90 for each lesson. If you get an answer wrong, read the explanation to understand it better then proceed.
- Always sit with pencil and paper to work and answer questions.

List of IXL lessons from 8th grade Math:

- A.3 Prime or Composite
- A.5 Greatest Common Factor
- A.6 Least Common Multiple
- B.5 Integer Inequalities with Absolute Values
- C.3 Add and Subtract Integers
- C.5 Add and Subtract Integers: Word Problems
- C.8 Evaluate Numerical Expressions involving Integers
- D.2 Least Common Denominator
- D.5 Identify Rational and Irrational Numbers

- E.3 Add and Subtract Rational Numbers: word problems
- E.9 Evaluate Numerical Expressions involving Rational Numbers
- F.2 Evaluate Exponents
- F.10 Multiplication and Division with Exponents
- F.15 Square Roots of Perfect Squares
- G.1 Convert between Standard and Scientific Notations
- H.2 Identify Equivalent Ratios
- H.10 Solve Proportions
- H.12 Scale Drawings: Word Problems
- J.1 Convert between percents, fractions, and decimals.
- J.3 Find what percent one number is of another
- J.7 Percents of numbers: word problems
- J.10 Percent of Change
- J.11 Percent of Change: word problems
- K.2 Unit Prices
- K.5 Percent of a Number: tax, discount, and more
- K.7 Sale prices: Find the original price
- K.10 Simple Interest

- M.1 multi-Step word problems
- N.3 Follow directions on a coordinate plane
- O.8 Find Missing angles in triangles using ratios
- O.15 Find measures of complementary, supplementary, vertical, and adjacent angles
- R.3 Pythagorean Theorem: find the missing leg or hypotenuse length
- R.6 Converse of Pythagorean Theorem: is it a right triangle?
- T.3 Area and Perimeter: word problems
- T.6 Circles: word problems
- T.8 Volumes of cubes, prisms, and pyramids
- V.6 Evaluate multi-variable expressions
- V.10 Identify terms and coefficients
- V.13 Multiply using the Distributive Property
- W.8 Solve two-step Equations
- X.4 Solve one-step Inequalities
- X.5 Graph solutions to one-step Inequalities
- Y.2 Find the slope from two points
- Z.1 Identify Functions
- Z.3 Does (x, y) satisfy the linear function?

- CC.9 Interpret Stem-and-Leaf Plots
- CC.14 Box Plots
- DD.1 Calculate mean, median, mode, and range
- EE.1 Probability of Simple Events
