

Summer IXL Skills for Students Entering 8th Grade

Students must complete up to **18** of the 26 **7th GRADE Math Topics on IXL** listed below and reach a score of **75%** to receive credit for completing the skill by **August 31, 2022**.

Underlined topics are mandatory - you may choose from the remainder of non-underlined topics to complete this assignment. If you have worked on this skill over the past school year, **please try the skill again until you achieve a score of at least 75**. I will be looking for the dates of these skills to be **completed between the dates of June 17, 2022 and August 31, 2022**. This assignment will be counted as a quiz grade for the first marking period. The information in bold is the category and the information next to the letter is the specific skill to complete under that category. Some categories have more than one skill. Please read carefully! If you have any difficulty with the IXL website, please contact **IXL Technical Support at (855) 255-6676 extension 4025**.

Operations with Integers

- a. Complete addition and subtraction equations with integers
- b. Multiply and divide integers

Operations with Decimals

- c. Add, subtract, multiply, and divide decimals: word problems

Operations with Fractions

- d. Add, subtract, multiply, and divide fractions and mixed numbers: word problems

Exponents and Square Roots

- e. Understanding exponents
- f. Evaluate exponents

Ratios, Rates, and Proportions

- g. Unit rates
- h. Compare rates: word problems
- i. Solve proportions: word problems
- j. Rate of change: tables
- k. Rate of change: graphs
- l. Constant rate of change

Proportional Relationships

- m. Write and solve equations for proportional relationships

Percents

- n. Estimate percent of numbers
- o. Convert between percents, fraction, and decimals

Coordinate Plane

- p. Follow directions on a coordinate plane
- q. Distance between two points

Expressions and Properties

- r. Multiply using the distributive property

- s. Add and subtract linear expressions
- t. Identify equivalent linear expressions I

One-Variable Equations

- u. Solve two-step equations: word problems
- v. Solve equations involving like terms

One-Variable Inequalities

- w. Solve one-step inequalities
- x. Graph solutions to two-step inequalities

Two-Variable Equations

- y. Identify the graph of an equation

Geometric Measurement

- z. Area and perimeter: word problems