

Math 8 IXL assignments.

The students' reports are sent automatically to me, so I will be able to enter the scores.

8.NS Number and Number Sense

- **8.1 The student will**
 - **8.1.a simplify numerical expressions involving positive exponents, using rational numbers, order of operations, and properties of operations with real numbers; and**
 - [Absolute value and opposite integers \(Eighth grade - B.2\)](#)
 - [Integer addition and subtraction rules \(Eighth grade - C.1\)](#)
 - [Add and subtract integers using counters \(Eighth grade - C.2\)](#)
 - [Add and subtract integers \(Eighth grade - C.3\)](#)
 - [Add and subtract three or more integers \(Eighth grade - C.4\)](#)
 - [Integer multiplication and division rules \(Eighth grade - C.6\)](#)
 - [Multiply and divide integers \(Eighth grade - C.7\)](#)
 - [Simplify expressions involving integers and absolute values \(Eighth grade - C.8\)](#)
 - [Absolute value of rational numbers \(Eighth grade - D.5\)](#)
 - [Add and subtract rational numbers \(Eighth grade - E.2\)](#)
 - [Multiply and divide rational numbers \(Eighth grade - E.4\)](#)
 - [Simplify expressions involving rational numbers \(Eighth grade - E.6\)](#)
 - [Understanding exponents \(Eighth grade - F.1\)](#)
 - [Evaluate exponents \(Eighth grade - F.2\)](#)
 - [Exponents: solve for the variable \(Eighth grade - F.3\)](#)
 - [Exponents with negative bases \(Eighth grade - F.4\)](#)
 - [Exponents with decimal and fractional bases \(Eighth grade - F.5\)](#)
 - [Understanding negative exponents \(Eighth grade - F.6\)](#)
 - [Evaluate negative exponents \(Eighth grade - F.7\)](#)
 - [Multiplication with exponents \(Eighth grade - F.8\)](#)
 - [Division with exponents \(Eighth grade - F.9\)](#)
 - [Multiplication and division with exponents \(Eighth grade - F.10\)](#)
 - [Power rule \(Eighth grade - F.11\)](#)
 - [Simplify expressions involving exponents \(Eighth grade - F.12\)](#)
 - [Relationship between squares and square roots \(Eighth grade - F.16\)](#)
 - [Cube roots of perfect cubes \(Eighth grade - F.18\)](#)
 - [Multiply numbers written in scientific notation \(Eighth grade - G.3\)](#)
 - [Divide numbers written in scientific notation \(Eighth grade - G.4\)](#)
 - **8.1.b compare and order decimals, fractions, percents, and numbers written in scientific notation.**
 - [Integers on number lines \(Eighth grade - B.1\)](#)
 - [Compare and order integers \(Eighth grade - B.3\)](#)
 - [Integer inequalities with absolute values \(Eighth grade - B.4\)](#)

- [Simplify fractions \(Eighth grade - D.2\)](#)
- [Convert between decimals and fractions or mixed numbers \(Eighth grade - D.6\)](#)
- [Compare rational numbers \(Eighth grade - D.7\)](#)
- [Put rational numbers in order \(Eighth grade - D.8\)](#)
- [Convert between standard and scientific notation \(Eighth grade - G.1\)](#)
- [Compare numbers written in scientific notation \(Eighth grade - G.2\)](#)
- [Equivalent ratios \(Eighth grade - H.2\)](#)
- [Convert between percents, fractions, and decimals \(Eighth grade - J.1\)](#)
- [Compare percents to fractions and decimals \(Eighth grade - J.2\)](#)
- [Compare percents of numbers \(Eighth grade - J.8\)](#)
- **8.2 The student will describe orally and in writing the relationships between the subsets of the real number system.**
 - [Classify numbers \(Eighth grade - A.8\)](#)
 - [Identify rational and irrational numbers \(Eighth grade - D.1\)](#)

8.CE Computation and Estimation

- **8.3 The student will**
 - **8.3.a solve practical problems involving rational numbers, percents, ratios, and proportions; and**
 - [Add and subtract integers: word problems \(Eighth grade - C.5\)](#)
 - [Add and subtract rational numbers: word problems \(Eighth grade - E.3\)](#)
 - [Multiply and divide rational numbers: word problems \(Eighth grade - E.5\)](#)
 - [Equivalent ratios: word problems \(Eighth grade - H.3\)](#)
 - [Compare ratios: word problems \(Eighth grade - H.4\)](#)
 - [Unit rates \(Eighth grade - H.5\)](#)
 - [Do the ratios form a proportion: word problems \(Eighth grade - H.7\)](#)
 - [Solve proportions: word problems \(Eighth grade - H.9\)](#)
 - [Estimate population size using proportions \(Eighth grade - H.10\)](#)
 - [Scale drawings and scale factors \(Eighth grade - H.13\)](#)
 - [Find the constant of variation: word problems \(Eighth grade - I.3\)](#)
 - [Proportional relationships: word problems \(Eighth grade - I.6\)](#)
 - [Find what percent one number is of another: word problems \(Eighth grade - J.4\)](#)
 - [Estimate percents of numbers \(Eighth grade - J.5\)](#)
 - [Percents of numbers and money amounts \(Eighth grade - J.6\)](#)
 - [Percents of numbers: word problems \(Eighth grade - J.7\)](#)
 - [Percent of change \(Eighth grade - J.10\)](#)
 - [Percent of change: word problems \(Eighth grade - J.11\)](#)
 - [Price lists \(Eighth grade - K.1\)](#)
 - [Unit prices \(Eighth grade - K.2\)](#)
 - [Unit prices with unit conversions \(Eighth grade - K.3\)](#)
 - [Unit prices: find the total price \(Eighth grade - K.4\)](#)
 - [Percent of a number: tax, discount, and more \(Eighth grade - K.5\)](#)
 - [Find the percent: tax, discount, and more \(Eighth grade - K.6\)](#)

- [Sale prices: find the original price \(Eighth grade - K.7\)](#)
 - [Multi-step problems with percents \(Eighth grade - K.8\)](#)
 - [Estimate tips \(Eighth grade - K.9\)](#)
 - [Simple interest \(Eighth grade - K.10\)](#)
 - [Compound interest \(Eighth grade - K.11\)](#)
 - [Convert rates and measurements: customary units \(Eighth grade - L.1\)](#)
 - [Convert rates and measurements: metric units \(Eighth grade - L.2\)](#)
 - [Mixed customary units \(Eighth grade - L.3\)](#)
 - [Convert between customary and metric systems \(Eighth grade - L.4\)](#)
 - [Convert between Celsius and Fahrenheit \(Eighth grade - L.6\)](#)
- **8.3.b determine the percent increase or decrease for a given situation.**
 - [Percent of change \(Eighth grade - J.10\)](#)
 - [Percent of change: word problems \(Eighth grade - J.11\)](#)
 - [Percent of a number: tax, discount, and more \(Eighth grade - K.5\)](#)
 - [Find the percent: tax, discount, and more \(Eighth grade - K.6\)](#)
 - [Sale prices: find the original price \(Eighth grade - K.7\)](#)
 - [Simple interest \(Eighth grade - K.10\)](#)
- **8.4 The student will apply the order of operations to evaluate algebraic expressions for given replacement values of the variables.**
 - [Evaluate variable expressions with integers and absolute values \(Eighth grade - C.9\)](#)
 - [Evaluate variable expressions involving rational numbers \(Eighth grade - E.7\)](#)
 - [Evaluate variable expressions involving squares and square roots \(Eighth grade - F.17\)](#)
 - [Evaluate single-variable expressions \(Eighth grade - T.4\)](#)
 - [Evaluate multi-variable expressions \(Eighth grade - T.5\)](#)
 - [Does x satisfy the equation? \(Eighth grade - U.1\)](#)
 - [Does \(x, y\) satisfy the linear equation? \(Eighth grade - V.1\)](#)
 - [Evaluate a linear function \(Eighth grade - V.2\)](#)
 - [Complete a function table \(Eighth grade - V.3\)](#)
 - [Does \(x, y\) satisfy a nonlinear equation? \(Eighth grade - W.2\)](#)
 - [Evaluate a nonlinear function \(Eighth grade - W.3\)](#)
- **8.5 The student will**
 - **8.5.a determine whether a given number is a perfect square; and**
 - [Square roots of perfect squares \(Eighth grade - F.13\)](#)
 - [Positive and negative square roots \(Eighth grade - F.14\)](#)
 - **8.5.b find the two consecutive whole numbers between which a square root lies.**
 - [Estimate positive and negative square roots \(Eighth grade - F.15\)](#)
 - [Estimate cube roots \(Eighth grade - F.19\)](#)