

Academy of Greatness & Excellence
Incoming 8th Grade: Pre-Algebra Review
2018-2019
Summer IXL.com Assignment

Numbers

1. **A.1**_Compare and order rational numbers
2. **A.2**_Absolute value and opposites
3. **A.3**_Number lines
4. **A.4**_Convert between decimals and fractions
5. **A.5**_Convert between repeating decimals and fractions
6. **A.6**_Square roots
7. **A.7**_Cube roots
8. **A.8**_Sort rational and irrational numbers
9. **A.9**_Classify rational and irrational numbers
10. **A.10**_Classify numbers

Operations

1. **B.1**_Add, subtract, multiply, and divide integers
2. **B.2**_Evaluate numerical expressions involving integers
3. **B.3**_Evaluate variable expressions involving integers
4. **B.4**_Add and subtract rational numbers
5. **B.5**_Multiply and divide rational numbers
6. **B.6**_Evaluate numerical expressions involving rational numbers
7. **B.7**_Evaluate variable expressions involving rational numbers

Ratios, rates, and proportions

1. **C.1**_Identify equivalent ratios
2. **C.2**_Write an equivalent ratio
3. **C.3**_Unit rates
4. **C.4**_Unit prices
5. **C.5**_Solve proportions
6. **C.6**_Solve proportions: word problems
7. **C.7**_Scale drawings: word problems

Percents

1. **D.1**_Convert between percents, fractions, and decimals
2. **D.2**_Solve percent equations
3. **D.3**_Percent word problems
4. **D.4**_Percent of change
5. **D.5**_Percent of change: word problems
6. **D.6**_Percent of change: find the original amount word problems
7. **D.7**_Percent of a number: tax, discount, and more
8. **D.8**_Find the percent: tax, discount, and more
9. **D.9**_Multi-step problems with percents

Measurement

1. **E.1**_Convert rates and measurements: customary units
2. **E.2**_Convert rates and measurements: metric units
3. **E.3**_Unit prices with unit conversions
4. **E.4**_Multi-step problems with unit conversions
5. **E.5**_Precision
6. **E.6**_Greatest possible error
7. **E.7**_Minimum and maximum area and volume
8. **E.8**_Percent error
9. **E.9**_Percent error: area and volume

Coordinate plane

1. **G.1**_Coordinate plane review

Properties

1. **H.1**_Properties of addition and multiplication
2. **H.2**_Distributive property