

# 6th ->7th Summer Assignments for Grade-Level Math Mrs. Snow

All of the objectives are from the 6th Grade IXL.COM

MANY of these objectives were completed during the school year. If you have previously worked on the objective before, then a Smart Score of 87% must be achieved. If it is a new objective, you can stop at 85%.

## Division

### Exponents and square roots

- D.1** Write multiplication expressions using exponents
- D.2** Evaluate exponents
- D.10** Square roots of perfect squares

## Number theory

- E.4** Identify factors
- E.5** Prime factorization
- E.6** Prime factorization with exponents
- E.7** Greatest common factor
- E.8** Least common multiple

## Decimals

- F.5** Put decimal numbers in order

## Add and subtract decimals

- G.1** Add and subtract decimal numbers

## Multiply and divide decimals

- H.2** Multiply decimals
- H.4** Divide decimals by whole numbers
- H.6** Multiply and divide decimals by powers of ten
- H.7** Division with decimal quotients

## Fractions and mixed numbers

**I.9** Convert between improper fractions and mixed numbers

**I.10** Convert between decimals and fractions or mixed numbers

### Add and subtract fractions

**J.3** Add and subtract fractions with unlike denominators

**J.6** Add and subtract mixed numbers

### Multiply fractions

**K.2** Fractions of whole numbers II

**K.8** Multiply three or more fractions and whole numbers

**K.10** Multiply mixed numbers and whole numbers

**K.13** Multiply three or more mixed numbers, fractions, and/or whole numbers

### Divide fractions

**L.2** Reciprocals

**L.3** Divide whole numbers and unit fractions

**L.5** Divide fractions

**L.7** Divide fractions and mixed numbers

### Integers

**M.1** Understanding integers

**M.2** Integers on number lines

**M.4** Graph integers on horizontal and vertical number lines

**M.5** Compare integers

**M.6** Put integers in order

### Operations with integers

**N.2** Add integers

**N.4** Subtract integers

**N.5** Add and subtract integers: find the sign

**N.7** Add three or more integers

### Mixed operations

- O.1** Add, subtract, multiply, or divide two whole numbers
- O.3** Evaluate numerical expressions involving whole numbers
- O.4** Add, subtract, multiply, or divide two decimals
- O.6** Evaluate numerical expressions involving decimals
- O.7** Add, subtract, multiply, or divide two fractions

### Ratios and rates

- R.3** Identify equivalent ratios
- R.4** Write an equivalent ratio
- R.10** Do the ratios form a proportion?
- R.11** Solve the proportion

### Percents

- S.1** Convert between percents, fractions, and decimals
- S.4** Percents of numbers and money amounts
- S.5** Percents of numbers: word problems
- S.8** Find what percent one number is of another: word problems

### Coordinate plane

- X.1** Objects on a coordinate plane
- X.2** Graph points on a coordinate plane

### Expressions and properties

- Y.10** Multiply using the distributive property

### One-variable equations

- Z.1** Does  $x$  satisfy an equation?
- Z.2** Which  $x$  satisfies an equation?

### One-variable inequalities

- AA.1** Solutions to inequalities
- AA.4** Solve one-step inequalities

### Two-dimensional figures

**CC.2** Measure and classify angles

**CC.4** Classify triangles

**CC.5** Identify trapezoids

**CC.6** Classify quadrilaterals

**CC.7** Graph triangles and quadrilaterals

**CC.8** Find missing angles in triangles

**CC.9** Find missing angles in quadrilaterals

**CC.11** Lines, line segments, and rays

**CC.12** Name angles

**CC.13** Complementary and supplementary angles

**CC.16** Parts of a circle

### **Geometric measurement**

**FF.1** Perimeter

**FF.2** Area of rectangles and squares

**FF.3** Area of triangles

