

## 7th ->8th Grade Level Math Summer Assignments

Do the following IXLs UNDER 7TH GRADE to a Smart Score of 85.

Please don't hesitate to contact me if you have any problems or concerns.

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## 7th Grade IXL.COM

### Number theory

**A.3**Multiplicative inverses

**A.5**Greatest common factor

**A.6**Least common multiple

**A.9**Scientific notation

### Operations with integers

**C.9**Add and subtract integers

**C.17**Multiply and divide integers

### Operations with decimals

**E.3**Multiply decimals

**E.5**Divide decimals

### Operations with fractions

**G.3**Add and subtract mixed numbers

**G.7**Multiply fractions and whole numbers

**G.10**Multiply mixed numbers

**G.13**Divide mixed numbers

### Rational numbers

**H.10**Add and subtract rational numbers

**H.15**Multiply and divide rational numbers

### Exponents and square roots

**I.1**Understanding exponents

**I.2**Evaluate exponents

**I.4**Exponents with negative bases

**I.10**Square roots of perfect squares

**I.11**Estimate square roots

### Ratios, rates, and proportions

**J.1**Understanding ratios

**J.9**Do the ratios form a proportion?

**J.11**Solve proportions

### Percents

**L.2**Convert between percents, fractions, and decimals

## Expressions and properties

**R.10** Properties of addition and multiplication

**R.11** Multiply using the distributive property

**R.15** Add and subtract like terms

## One-variable equations

**S.1** Which  $x$  satisfies an equation?

**S.6** Solve two-step equations

**S.8** Solve equations involving like terms

## One-variable inequalities

**T.3** Write inequalities from number lines

**T.4** Solve one-step inequalities

**T.5** Graph solutions to one-step inequalities

**T.6** Solve two-step inequalities

**T.7** Graph solutions to two-step inequalities

## Two-variable equations

**U.5** Complete a table for a two-variable relationship

## Linear functions

**V.1** Find the slope from a graph

## Two-dimensional figures

**W.1** Identify and classify polygons

**W.3** Classify triangles

**W.5** Identify trapezoids

**W.6** Classify quadrilaterals

**W.9** Find missing angles in triangles

**W.11** Find missing angles in quadrilaterals

**W.14** Lines, line segments, and rays

**W.15** Parallel, perpendicular, and intersecting lines

**W.16** Identify complementary, supplementary, vertical, adjacent, and congruent angles

**W.17** Find measures of complementary, supplementary, vertical, and adjacent angles

**W.22** Parts of a circle

## Geometric measurement

**AA.1** Perimeter

**AA.2** Area of rectangles and parallelograms

**AA.3** Area of triangles and trapezoids

**AA.5** Circles: calculate area, circumference, radius, and diameter

**AA.7** Volume

**AA.11** Surface area