

## MATH IXL SUMMER REVIEW AND PRACTICE – For Rising 8<sup>th</sup> Graders (Mrs. Hinckley)

Students and parents,

Rising 8<sup>th</sup> graders are required to complete the skills listed below over the summer on IXL.com. Your child will continue to use the IXL username / password assigned to them at the beginning of the year. Students are required to attain a score of 80 for each of the lessons. **A first quarter test grade will be given for the completion of this summer work.** The work must be completed between the dates of **June 10<sup>th</sup> and August 23<sup>rd</sup> 2018.** Be sure you are working in **7<sup>th</sup> grade math** in IXL.

### NUMBER THEORY

- A.2 – Prime factorization
- A.9 – Scientific notation

### INTEGERS

- B.6 – Integer inequalities with absolute value

### OPERATIONS WITH INTEGERS

- C.20 – Evaluate numerical expressions involving integers

### OPERATIONS WITH FRACTIONS

- G.16 – Add, subtract, multiply, and divide fractions and mixed numbers: word problems

### EXPONENTS AND SQUARE ROOTS

- I.9 – Evaluate numerical expressions involving exponents
- I.11 – Estimate square roots

### RATIOS, RATES, AND PROPORTIONS

- J.4 – Equivalent ratios: word problems
- J.12 – Solve proportions: word problems

### PERCENTS

- L.2 – Convert between percents, fractions, and decimals

### CONSUMER MATH

- M.6 – Percent of a number: tax, discount, and more

### UNITS OF MEASUREMENT

- O.3 – Compare and convert customary units
- O.5 – Compare and convert metric units

## EXPRESSIONS AND PROPERTIES

- R.3 – Write variable expressions: word problems
- R.5 – Evaluate multi-variable expressions
- R.8 – Identify terms and coefficients

## ONE-VARIABLE EQUATIONS

- S.6 – Solve two-step equations
- S.8 – Solve equations involving like terms

## ONE-VARIABLE INEQUALITIES

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

## STATISTICS

- CC.1 – Calculate mean, median, mode and range

## LINEAR FUNCTIONS

- V.1 – Find the slope from a graph
- V.5 – Graph a line using slope

## TWO-DIMENSIONAL FIGURES

- W.13 – Interior angles of polygons
- W.17 – Find measures of complementary, supplementary, vertical, and adjacent angles

## PYTHAGOREAN THEOREM

- Y.2 – Pythagorean theorem: find the missing leg length

## GEOMETRIC MEASUREMENT

- AA.7 – Volume of cubes and prisms
- AA.11 – Surface area of cubes and prisms

## DATA AND GRAPHS

- BB.5 – Interpret stem-and-leaf plots
- BB.16 – Interpret box-and-whisker plots

## PROBABILITY

- DD.9 – Probability of compound events
- DD.13 - Permutations