

**Academy of Greatness & Excellence**

**8<sup>th</sup> Grade- Algebra I**

**2018-2019**

**Summer IXL.com Assignment**

**Algebra review**

1. **A.1**\_Ratios and proportions
2. **A.2**\_Scale drawings: word problems
3. **A.3**\_Properties of exponents
4. **A.4**\_Simplify radical expressions
5. **A.5**\_Write variable expressions
6. **A.6**\_Solve linear equations
7. **A.7**\_Solve linear inequalities
8. **A.8**\_Solve systems of linear equations
9. **A.9**\_Solve a quadratic equation by factoring
10. **A.10**\_Solve a quadratic equation using the quadratic formula

**Points, lines, and segments**

1. **B.1**\_Lines, line segments, and rays
2. **B.2**\_Lengths of segments on number lines

**Angles**

1. **C.1**\_Angle vocabulary

**Parallel and perpendicular lines**

1. **D.1**\_Identify parallel, perpendicular, and skew lines and planes

**Lines in the coordinate plane**

1. **E.1**\_Coordinate plane review

**Introduction to triangles**

1. **F.1**\_Classify triangles

**Two-dimensional figures**

1. **G.1**\_Polygon vocabulary

**Quadrilaterals**

1. **N.1**\_Identify trapezoids

**Similarity**

1. **P.1**\_Similarity ratios

**Area and perimeter**

1. **S.1**\_Perimeter
2. **S.2**\_Area of rectangles and squares

**Circles**

1. **U.1**\_Parts of a circle

**Measurement**

1. **W.1**\_Convert rates and measurements: customary units
2. **W.2**\_Convert rates and measurements: metric units

**Probability**

1. **X.1**\_Theoretical and experimental probability