

## IXL Summer Work – Incoming 8<sup>th</sup> grade (Geometry) 2022-2023 School Year

Using your Chromebook or any computer, go to <https://www.ixl.com/signin/maryqueenschool> Log in using your Username and Password assigned to you, or just log in with Google. Next to each topic below, choose the first or second IXL alphanumeric code. The first is regular and the second is a challenge – you know who you are who needs to do the more challenging work. If you choose to do both, we will give bonus points. If you have forgotten how to do something click on ‘Watch a tutorial’, or miss a problem, read the steps given on IXL explaining how to solve the problem correctly before hitting ‘Got It’. If you still have problems, please go to Khanacademy.org or Google the concept and watch a video showing you how to complete the assignment. **No calculators, please.** Please get 20 questions correct. You may do any additional topics on IXL that you choose, but please try to complete the following (**all are Algebra 1 skills and have stars by the topic**):

You may do any additional topics on IXL that you choose, but please complete each of the following 10 topics:

Operations: B.6 Evaluate numerical expressions involving rational numbers; B.7 Evaluate variable expressions involving rational numbers.

Ratios, rates, and proportions: C.6 Solve proportions: word problems; C.7 Scale Drawing: word problems

Percents: D.8 Find the percent: tax discount, and more; D.9 Multi-step problems with percents

Geometry: F.9 Area and perimeter of similar figures; F.10 Area between two shapes

Solve Equations: J.10 Solve one-step and two-step equations: word problems; J.11 Solve linear equations: mixed review

Linear functions: S.9 Slope-intercept form: write an equation; S.11 Slope-intercept form: write an equation from a word problem.

Systems of linear equations: U.14 Solve a system of equations using any method; U.15 Solve a system of equations using any method: word problems.

Exponents: V.13 Multiplication with rational exponents; V.14 Division with rational exponents

Factoring: AA.4 Factor quadratics with leading coefficient 1; AA.5 Factor quadratics with other leading coefficients.

Rational functions and expressions: GG.3 Simplify rational expressions; GG.4 Multiply and divide rational expressions.

If you have questions, please contact Lynn Frank ([lynn.frank@maryqueenschool.org](mailto:lynn.frank@maryqueenschool.org)).