



## IPoly Math Entrance Exam Content

In order to prepare for the math portion of IPoly's entrance exam, it is suggested that students practice specific formulas listed in the outline below. The 25-question test will take place at IPoly; students will have approximately 90 minutes to complete the exam. Students must show their work on a scratch paper; calculators will not be allowed.

<b>6th Math Topics / Skills</b>
Multiply numbers
Multi step word problems
Multiply two fractions word problems
Area of rectangles with fractions
Graph points on a coordinate
<b>7th Math Topics / Skills</b>
Equivalent ratios
Compare and order rational numbers
Percent of numbers
Write expression using exponents
Evaluate numerical expression w/ fractions
Factor expressions
<b>8th Math Topics / Skills</b>
Convert decimals and fractions or mixed numbers
Multiply using the distributive property
Add & subtract positive and negative fractions
Circles via word problems
Solve two step equations
Evaluate numerical expressions
Factors of linear expressions
Find measures of complimentary, supplementary and vertical angles
Identify equivalent linear expressions
Solve two step inequalities
Solve equations
Graph a line with slope intercept form
Solve equations using square roots
Write a linear equation from slope and a point

**Resources:** It is suggested that students practice specific formulas listed in the outline above by pulling up online examples or getting assistance from a tutor or teacher. Other suggestions include using free resources such as <https://www.khanacademy.org> and [www.youtube.com](http://www.youtube.com). An optional fee-based site to look into is [www.ixl.com](http://www.ixl.com).