

IPoly Math Assessment Study Guide

(for students applying for 11th or 12th Grade)

In order to prepare for the math portion of IPoly's admissions assessment, it is suggested that students practice specific concepts listed in the outline below. The 20-question test will take place at IPoly; students will have approximately 60 minutes to complete the assessment. Students must show their work on a scratch paper; calculators will not be allowed.

6th Grade

- Multiply numbers
- Multiple-step word problems
- Multiply two fractions word problems

7th Grade

- Equivalent ratios
- Percent of numbers
- Evaluate numerical expression with fractions

8th Grade

- Multiply using the distributive property
- Solve two-step equations
- Evaluate numerical expressions
- Factors of linear expressions
- Find measures of complimentary, supplementary and vertical angles
- Solve two step inequalities
- Solve equations
- Graph a line with slope intercept form and standard form
- Solve equations using square roots
- Write a linear equation from slope and a point
- Pythagorean theorem
- Solve for variables in missing angles and sides of triangles
- Write a linear equation from slope and a point in slope-intercept, standard, and point-slope form
- Factor expressions

Suggested Resources:

It is recommended 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 www.khanacademy.org and www.youtube.com. An optional fee-based site to look into is www.ixl.com.