

WELCOME TO MATH 6

Math 6 is a natural progression of SchoolNova's Math 5 program. It will build up on previous concepts in order to further develop topics like Logic, Probability, Geometry and Arithmetic among others. The idea of the class is for it to be as dynamical as possible, with the students actively working on problems based on newly learned concepts. Because of this, participation will be highly encouraged.

The instructor of this class is Pedro Mercado Lozano. Please feel free to contact him at lozano@schoolnova.org with any question or comment about the class.

TOPICS

The topics covered will be:

- Logic and logical expressions
- Set Theory
- Combinatorics: permutation, number of subsets, etc.
- Basics of Probability
- Geometry and Ruler and Compass constructions
- Arithmetic and Geometric sequences

To ensure a proper learning experience, we will spend the first couple of classes reviewing some concepts of Math 5 which are essential in order to keep advancing.

MATERIALS REQUIRED

Handouts and printed homework will be distributed to students at the beginning of each class. Students should have a binder or folder, a notebook, pencil, sharpener and eraser. Keep in mind that sharing won't be possible throughout the course, so the students should always come prepared with everything they might need.

HOMEWORK

Doing homework is essential in order to get a good learning experience. It serves two main purposes: 1) it helps the student realize what is still not completely clear and 2) some exercises will even be designed so that new concepts are learnt while solving it. Therefore, homework must be done every week.

That being said, some problems might prove to be challenging. Therefore, if a student cannot solve these problems it is not problematic. Most of the times, we will spend some time of each class explaining homework problems that students were not able to solve. However, please try all the problems for some time before giving up. Finally, you can always contact the instructor to get some hints.

GRADES

There will be no grades for this class. We will use both homework and in-class participation to determine how is each student doing.