

Math 5b Class Information

September 16, 2018

Welcome to the New Semester at SchoolNova!

Instructor Information

Vibha Mane

Email : vibha.mane@stonybrook.edu

Topics Covered

Prime Numbers, prime factorization, LCM, GCD, divisibility tests

More fractions, decimal numbers

Algebraic Equations, algebraic Identities, commutative, associative and distributive properties

Powers, negative numbers, absolute value

Powers of 2, binary numbers, arithmetic in base 2 and 4

Word problems

Basic probability theory and combinatorics

Parallel lines and angles

Congruence tests for triangles

Parallelogram and properties

Trapezoid and properties

Pythagoras' Theorem

Math Battle (Fun Problems)

Homework

Homework assignments are an **essential** part of the course. All homework assignments are posted online at the SchoolNova website. Click on Homework in the navigation bar on the left.

Grades

No grades are assigned for the course. Parents may discuss the progress of their child with me.

References & Resources

Some problems are taken from the following books:

1. *Mathematical Circles*, Dmitri Fomin, Sergey Genkin and Ilia Itenberg, American Mathematical Society, 1996.
2. *Math Olympiad Contest Problems for Elementary and Middle School*, George Lenchner, Glenwood Publications, 1997.
3. *Geometry, Grades 9 – 12*, McDougal Littell, 2004.