

# Math 5c Class Information

September 26, 2021

Welcome to the New Semester at SchoolNova!

## Instructor Information

Instructor: Vibha Mane

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Teaching Assistant: Gregory Levet

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## Topics Covered

- Prime Numbers, prime factorization, LCM, GCD, divisibility tests
- More fractions and 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)

## Google Classroom

Students will receive an invitation to join the Google classroom. All the necessary class material and announcements will be posted here. A separate document on how to join the Google classroom is posted.

## Homework

Homework assignments are an **essential** part of the course. All homework assignments are posted online in the Google classroom.

## 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.