

Math 99

[Class 1 - Part 1, Part 2](#)

Tuesday, January 19
Introduction to MyOpenMath,
Course Overview, Order of Operations, Axioms
of Real Numbers

[Class 2 - Part 1, Part 2](#)

Thursday, January 21
Factors of a Number, The words and and or,
Perimeter and Area of Rectangles, Introduction
to Set Theory, Combinatorics 1 (systematic
listing and the handshake problem)

[Class 3](#)

Tuesday, January 26
Is this number a prime? , Prime Factorization,
Division with Remainder, Positive and Negative
Numbers

[Class 4](#)

Thursday, January 28
Set Operations, Perimeter and Area of Right
Triangles, Square Roots

[Class 5](#)

Tuesday, February 2
Algebraic Expressions and Statements,
Summation 1, n th Root of a Number,
Area of a General Triangle

[Class 6](#)

Thursday, February 4
Rules of Exponents, Fractions 1 (the definition)

[Class 7](#)

Tuesday, February 9
Exponential Expressions, One- and Two-Step
Equations, Equivalent Fractions, LCM and GCF

Class 8 Exam 1

Thursday, February 11

[Class 9](#)

Tuesday, February 16
Improper Fractions and Mixed Numbers, Adding
and Subtracting Fractions, Simplifying Algebraic
Expressions, Linear Equations 2 (unknown on
both sides), Multiplying Algebraic Expressions

[Class 10](#)

Feb 18, 2021
Fractions 5 (multiply), Area of a Parallelogram
More on Sets (complements), Combinatorics 2
(Fundamental Counting Principle)

[Class 11](#)

Tuesday, Feb 23
Division of fractions, Integer Exponents,
Permutations, The Zero Product Rule, Factoring
out the GCF

[Class 12](#)

Thursday, Feb 25
The Difference of Squares Theorem, Basic
Percent Problems, The Rectangular Coordinate
System

[Class 13](#)

Completing the Square (Parts 1 and 2), Rational
Expressions, Intervals

[Class 14](#)

Wednesday, March 4
Integer Exponents in Practice, Complex
Fractions, Review of Decimals, Scientific
Notation with Negative Exponents, Proving that
Square-Root of 2 is Irrational

[Class 15](#)

Tuesday, March 9
Fractions and Decimals, The Real Number
System, Radical Expressions (Part 1)

Class 16 - Exam 2

[Class 17](#)

Tuesday, March 16
Completing the Square - Part 3, Smallest Value
of a Quadratic Expression, Graphing Lines
(Review), The Triangle Inequality, The
Pythagorean Theorem

[Class 18](#)

Thursday, March 18
Graphing Lines, Listing Subsets, Completing the
Square - Part 4, the Triangle Inequality

[Class 19](#)

Tuesday, March 23
Introduction to Construction, Slope of a Line,
Graphing a Parabola - Part 1

[Class 20](#)

Thursday, March 25
More Linear Equations, Linear Inequalities,
Graphing a Parabola, Rational Exponents,
Mixture Problems

[Class 21](#)

Tuesday, April 6
Systems of Linear Equations, Compound Inequalities, Absolute Value Equations

[Class 22](#)

Wednesday, April 7
Writing Equations of Lines

[Class 23](#)

Tuesday, April 13
Functions, Radical Equations, the Inscribed Circle, Similar Triangles

Class 24 - Exam 3

[Class 25](#)

Tuesday, April 19
The Vertical Line Test, Graphing Parabolas - Part 2 (with leading coefficient), Rational Expressions 2 (adding, subtracting), 3 by 3 Linear Systems

[Class 26](#)

Thursday, April 22
The Quadratic Formula, Similar Triangles, Domain of Functions, Arithmetic, Geometric, and Harmonic Means

[Class 27](#)

Tuesday, April 27
Complex Numbers

[Class 28](#)

Thursday, April 29
More on Complex Numbers

[Class 29](#)

Tuesday, May 4
Review of Optimization, More on Linear Systems, Rational Equations, Two More Set Operations, Factoring by Trial and Error, Factoring by Grouping, The Thales Circle, Angles in Circles

[Class 30](#)

Thursday, May 6
Factoring by the AC-method, Sum and Difference of Cubes, Work Word Problems, Age Word Problems, Digit Word Problems

[Class 31](#)

Tuesday, May 11
Basic functions and Their Properties, Equations with Parameters, Tangent to a Parabola

Class 32- Exam 4