

## Math 5 Outline (2 units) Essential Topics from Prealgebra

[TEXT: Beginning Algebra, 1st Edition, Messersmith]

**Approved: November 2017**

**Effective: Summer 2018**

MATERIAL TO BE COVERED AT THE PREALGEBRA LEVEL	SECTIONS FROM TEXT	TIME LINE
Arithmetic Review: Order of operations, exponents, absolute value, operations with real numbers, algebraic expressions. [Just-in-time arithmetic support for algebra and geometry]	1.1, 1.2, 1.4-1.7	6 hours
Geometry Review: Perimeter, area, volume, angles, and their applications [Just-in-time support for geometry topics and applications]	1.3, 3.6, 3.7	4 hours
Exponent Review: Product Rule, Power Rule, Quotient Rule with whole number exponents only. [Just-in-time support for integer exponents]	2.1-2.3	2 hours
Solving Review: Solving basic linear equations having integer, decimal, and rational coefficients [Just-in-time support for solving more advanced linear equations]	3.1-3.3	3 hours
Proportion Review: Ratios, rates, percents, and proportions. [Just-in-time support for proportion applications]	3.7	2 hours
Graphing Review: Cartesian coordinate system, completing a table of values, finding intercepts, and graphing linear equations by plotting points. [Just-in-time support for graphing linear equations]	4.1, 4.2	3 hours
Polynomial Review: Review of exponent rules, vocabulary, evaluating polynomials and operations of polynomials. [Just-in-time support for polynomial expressions and equations]	6.1-6.4	4 hours
Factoring Review: Identifying greatest common factor (GCF), factoring by GCF, arithmetic skills for factoring trinomials. [Just-in-time support for factoring]	7.1, 7.2	2 hours
Rational Expression Review: Least common multiple (LCM), least common denominator (LCD), evaluating rational expressions and operations of rational expressions. [Just-in-time support for rational expressions and equations]	8.1- 8.5	3.5 hours
Application Review: Translating word sentences to equations, applications of geometry, formulas, Pythagorean Theorem, proportions, and percents. [Just-in-time support for word problems]	3.5-3.7, 7.6, 8.7	4 hours
<b>FINAL EXAM</b>		<b>2.5 Hours</b>

- This outline does not include time for exams (other than the final exam time). This does not imply that you should only give a final exam.
- Instructors should emphasize “You Try Exercises”, “Putting it All Together”, chapter summaries/reviews/tests.
- Author-created supplemental worksheets are available online through Connect at [www.connectmath.com](http://www.connectmath.com).
- This is a Pass/No Pass course and is not subject to department grading policy.