

MAT086

Pre-Algebra

The following PowerPoint slides will support a one semester prealgebra class. Topics range from whole numbers to graphs and statistics. The order of presentation is based loosely on the text, Prealgebra, by Tom Carson. The slides were developed initially to support a cable television class. Please feel free to use whichever of these roughly 2000 slides you feel might enhance your students' learning.

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Week One

- Introduction to MAT086
- Our Number System
- Addition and Subtraction
- Multiplication and Exponents

Week Two

- Division
- Geometrical figures, Order of Operations, Square Roots
- Problem Solving
- More Problem Solving

Week Three

- Adding Positive and Negative Integers
- Subtracting Integers
- Multiplying and Dividing Integers
- Order of Operations, Problem Solving

Week Four

- Polynomial Expressions
- Simplifying Polynomials
- Operations on Monomials
- Adding and Subtracting Polynomials

Week Five

- Multiplying Polynomials
- Dividing Polynomials
- Solving Problems with Polynomials
- MAT 086 Review for Midterm

Week Six

- Solving Equations
- Adding and Subtracting Equations
- Solving Equations with Multiplication and Division
- Equations and Word Problems

Week Seven

- Introduction to Fractions
- Multiplying Fractions
- Dividing Fractions
- Order of Operations and
Evaluating and Simplifying
Expressions

Week Eight

- Adding and Subtracting Fractions, Mixed Numbers, and Rational Expressions
- Adding and Subtracting Rational Expressions
- The Lowest Common Denominator
- Solving Problems Involving Fractions

Week Nine

- Decimals and Fractions
- Decimal Numbers
- Multiplication of Decimals
- Dividing Decimals

Week Ten

- Word Problems with Decimals
- Word Problems with Decimals and Geometry
- More Word Problems with Geometry
- Decimal Review

Week Eleven

- Ratios-A
- Ratios-B
- Measurements
- Converting Metric Units

Week Twelve

- Using Percent
- Percent
- Solving Percent Sentences
- Problems with Percents

Week Thirteen

- Percent of Increase and Decrease
- Simple Interest
- Compound Interest
- Lots of Problems

Week Fourteen

- Statistics
- Tables, Charts, and Graphs
- The Rectangular Coordinate System
- Graphing Linear Equations

Week Fifteen

- Basic Math Review-I
- Basic Math Review-II
- Algebra I
- Algebra II