Algebra 1 West Aurora School District State Goal 6 – Number Sense

STATE GOAL 6 – Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios, and proportions.

Concepts: Need to Know About Number Sense

- Equivalent Number Forms
- Order of Operations
- Number Sentences/Word Problems
 - Rational Numbers
 - Single and Multi-Step
 - Ratios and Proportions
- Percents

Skills: Be Able to Do

- Represent (Equivalent Number Forms)
- Apply (Knowledge and Rules of Order of Operation)
- Set-up (Single and Multi-Step Problems Involving Ratios, Proportions, Percents, etc with Rational Numbers)
- **Evaluate** (Single and Multi-Step Problems Involving Ratios, Proportions, Percents, etc with Rational Numbers)
- Solve (Single and Multi-Step Problems Involving Ratios, Proportions, Percents, etc with Rational Numbers)

Topics or Contexts: Equivalent number forms include the following: fraction/decimal/percent, radical/rational exponents, exponential, absolute value, scientific notation.

> Problems involving ratios and proportions may include the following: quantity comparisons, rate of change, unit rate.

Percent problems would be dealing with: sales tax, tips, interest, discount, markup, quantity comparisons, commission, compound

All problems need to include students judging reasonableness of solutions.

Various lessons in textbooks

Problem solving activities involving real-life situations (Problems of

ACT/WorkKeys Worksheets - Learn-a-Test - Coach Software