**Algebra 1 - Homework Syllabus**

**(Reg)**

**Expectations:**  
**·Rewrite original problem (unless word problem or specified)**  
**·Show ALL work in the vertical format. (Must show each step)**  
**·Answer question being asked**

**·Students may use a calculator**

**Chapter 3: Solving Linear Equations**

**3.1: Solve One-Step Equations (pp. 137-140)**  
**Set A: Adding/Subtracting Equations (2):** 8, 10  
**Set B: Multiplication/Division Equations (2):**  22, 28  
**Set C: Decimal/Fraction Equations (4):** 32, 38, 40, 46  
**WP: \*Always start by identifying a variable and writing an equation (5):** 49, 52, 54, 55, 56

13 Problems Total

**3.2: Solve Two-Step Equations (pp. 144-146)**  
**Set A: Solve Two-Step Equations (5):** 6, 8, 10, 16, 18  
**Set B: Write a function and solve for input (2):** 24, 26  
**Set C: Fraction and Decimal Equations (2):** 28, 34  
**WP (3):** 37, 38, 39

12 Problems Total

**3.3: Solve Multi-Step Equations (pp. 150-153)**  
**Set A: Solve by Combining Like Terms (2):** 6,8  
**Set B: Solve by Distributing First (2):** 12,14  
**Set C: Solve by Using Reciprocals (2):** 20, 22  
**Set D: Decimals (1):** 30  
**WP (4):** 33, 38, 39, 40

11 Problems Total

**3.4: Solve Equations with Variables on Both Sides (pp. 157-159)**  
**Set A: Basic Variables on Both Sides (doesn’t include “no sol” or “any number”) (4):** 7, 9, 13, 30  
**Set B: Including “No solution” and “Any number” (4):** 21, 23, 24, 32  
**Set C: Clearing Decimals and Fractions (4):** 33, 34, 37, 38  
**WP (4):** 46, 49, 50, 51

17 Problems Total

**3.5/3.6: Write and Solve Ratios and Proportions (pp. 165-167 and 171-173)**  
**Set A: Basic Proportions and Ratios (pp. 165-167) (3):** 6, 15, 27  
**Set B: Solving Proportions that Involve Distrubuting (pp. 171-173) (3):** 8, 9, 11  
**Set C: Solving Proportions Involving Variables on both sides (pp. 171-173) (3):** 12, 19, 21  
**WP (Ratios) (pp. 165-167) (2):** 45, 46  
**WP (Proportions) (pp. 165-167) (2):** 50, 51  
**WP (Scale) (pp. 171-173) (2):** 35, 39  
  
 15 Problems Total

**3.7: Solve Percent Problems (pp. 179-181)**  
**Set A: Basic Percent Problems (Can use either percent equation or percent proportion) (6):** 3, 5, 7,

9, 13, 15  
**Set B: Evaluate percent problems/Real-world percent problems (3):** 22, 23, 28  
**WP (2):** 35, 36  
  
11 Problems Total

**3.8: Rewrite Equations and Formulas**  
**Set A: Solve Literal Equations (2):** 5, 6  
**Set B: Rewrite Equations into Function Form (4):** 13, 15, 18, 26  
**Set C: Rewrite Formulas (3):** 20, 22, 28  
**WP (2):** 32, 33

11 Problems Total