Lesson 2a: Algebraic Expressions and Addition Properties

Objective: Students will read, write, and evaluate expressions containing variable and apply addition properties

Complete on a separate sheet of paper and turn in to the basket.

<u>Warm-up</u>:
Write the next three numbers for each sequence and name the pattern

1. 10, 20, 30, ___, ____, _____   The pattern is _____
2. 5, 10, 15, 20, ___, ____, _____   The pattern is _____
3. 8, 16, 24, ___, ____, _____   The pattern is _____
4. 25, 50, 75, ___, ____, _____   The pattern is _____
5. 12, 24, 36, ___, ____, _____   The pattern is _____

   Find a pattern to solve the problem.

The monthly rent on an apartment is $850 in 1998, $930 in 2000, and $1,010 in 2002. Predict the monthly rent in 2006. Make a table to show your work.

Vocabulary:
1. Variable – a letter that represents a number in an algebraic expression
   Example: 3 + n = 10; n is a variable that stands for some number.

2. Expression – a number, variable, or any combination of numbers, variables, and operation signs.
   Example: 20 – n = 4

3. Commutative property – Changing the order of addends does not change the sum. Example: a + b = b + a

4. Associative property – Changing grouping of addends does not change their sum. Example: a + (b + c) = (a + b) + c

5. Identity property – The sum of any number and 0 is that number.
   Example: x + 0 = x

Powerpoint – writing algebraic expressions and addition properties.

Practice: Practice 2.1

http://www.eduplace.com/math/mw/practice/5/practice/2_1.pdf

Homework: HW 2.1

http://www.eduplace.com/math/mw/practice/5/homework/2_1.pdf