Unit 1 Function Relationships
Notes Day 1 (PH 1-1 and PH 1-7)

Name_____
Date_____ **Hour**_____

Vocabulary:

A _____is a _____ that represents one or more unknown numbers.

An _____ _____ uses numbers, operations and variables.

An _____ is a mathematical sentence that uses an _____ sign.

Example 1: Write an ***algebraic expression*** for each phrase.

a. the sum of n and 8

b. t minus 15

c. six less than b

d. the quotient of 4.2 and c

e. two less than three times x

f. four times the sum of y and 7

g. ten more than twice a number

h. three times a number minus six

Example 2: Define a variable and write an ***equation*** to show the total income from selling tickets to a school play for $5 each.

Example 3: Define variables and write an ***equation*** to model the data in the table.

Gallons Used (G)	**4**	**6**	**8**	**10**
Miles Traveled (M)	**80**	**120**	**160**	**200**

More Vocabulary:

A _____ is a number, a variable, or the product of a number and a variable.

A _____ is a term that has no variable.

A _____ is the number you multiply a variable term by.

_____ _____ contain the same variables to the same powers.

Example 4: Identify the terms, the coefficients, and the constant in the expression.

a. $5x^2 + 2x - 3$ terms: _____ coefficients: _____ constant: _____

b. $-2x^3 - x^2$ terms: _____ coefficients: _____ constant: _____

Example 5: Simplify each expression when possible.

a. $-2w^2 + w^2$

b. $3x - 2x$

c. $8z + 2y$

d. $-7q^2 + 3q$

e. $7x - 2(3x + 4)$

f. $2ab + 3a^2 - a^2 - 4ab$

g. $12x - (15 + 8x) + 3(x + 5)$

Homework: Pages 6 – 8 # 1 – 23 odd, 48 – 51 all **AND**
Pages 50 – 53 # 15 – 19 odd, 31 – 47 odd, 70, 75, 80, 81, 83, 84, 97, 98