Lesson 3.7 - Using Algebraic Expressions to Represent a Situation

Class Notes – Write an expression to represent each situation.

LP#1		
14 less than a number	11 more than a number	A number increased by 15
LP#2 A number minus 9	20 plus a number	A number divided by 30
LP#3 - COMPARE The product of -9 and a number	**COMPARE** Double a number	**COMPARE** 7 subtracted from a number
The quotient of 12 and a number	Triple a number	A number subtracted from 6

LP#4		
6 times a number subtracted from 30	The product of 8 and a number added to 50	10 times a number added to the 3 times the number
LP#5 13 subtracted from 5 times a number	9 fewer than 8 times a number	The sum of triple a number and the number

LP #6 - Write an expression to for the amount of money in your pocket using variables to represent the number of each coin.

An unknown amount of quarters	An unknown amount of nickels	An unknown amount of pennies
An unknown amount of quarters and dimes	An unknown amount of nickels and pennies	An unknown amount of pennies and half-dollars

Review – Solve each first-degree equation and check. If you do not solve an equation, explain.

R#1 -5 added to a number	18 minus a number	Twice a number added to 6
R#2 3 fewer than a number 8 divided by a number	The product of 5 and the sum of a number and 12	The product of -7 and a number
R#3 20 times a number plus 10	16 fewer than the product of a number and 7	8 divided by a number