Lesson 4 Solving Word Problems Using Systems_____

Example 1
Kaitlin would like to buy a new furnace. One brand costs $1200 to buy, and $160 a month to operate. The other brand costs $900 to buy and $210 a month to operate.

   a) Determine the number of months for which the total cost of either unit will be the same.
   b) Determine how much Kaitlin will save in one year by purchasing the more economical furnace.

Example 2
The sum of two numbers is 60 and their difference is 24. Determine the two numbers.

Example 3
A man is 24 years older than his daughter. In 10 years, he will be 2.5 times her age. Determine the current ages of the man and his daughter.

Example 4
Chase emptied his piggy bank discovered $10.05. In his piggy bank there were only quarters and dimes. Determine how many of each coin he had if there were 60 coins altogether.