**LT #6: Word Problems:**

**Directions: Define your variables, write a system of equations, solve and write a short complete sentence for your answer. (4 points each)**

1. How many liters of pure antifreeze (100%) must be added to 20 liters of a

50% antifreeze solution to produce a 75% solution?

1. When Mrs. Katdisliker swims with the current, she swims 16 km in 2 hours.

Against the current, she can swim only 12 km in the same time.

How fast can she swim in the still water? What is the rate of the current?