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?

Amount	%	Total
×	100	100 X
20	50	1000
y /	75	754

non?	X+20=4	
	(+1000= 45y	
100×	+1000 = 75(x+20 +1000 = 75x+ 150	(
100x	+1000= +5 × 1	_
2	5x=500	
	X=20	

2. 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?

	Rate >	Time=	Distance	
W/ current	R+C	2	16	
against current	r R-C	2	12	
	-c)=16	100 m	R-c)=12 P-c=(0	