MASSACHUSETTS MATHEMATICS LEAGUE FEBRUARY 2006 ROUND 4 ALGEBRA ONE: WORD PROBLEMS ANSWERS

		A)		
		B)		_mins
		C)		
A)	I have a mixture of quarters and Sacagawea dollar of I gave \$16.50 worth of these coins to a teller, but he 3 of the quarters as dollars. If he credited me X cen the minimum number of coins I could have given the find the numeric value of $X + K$.	mistake <u>ts</u> for th	enly cou ese coin	nted
B)	I jog at 12 feet per second and my little sister jogs a If we run in opposite directions on a quarter mile traevery minute. If we run in the same direction, how take me to lap her? (Recall: 1 mile = 5280 feet!)	ick, we	pass eac	h other
C)	A chemist adds 20 liters of an alcohol and water sol 30% alcohol to 10 liters of an original solution of al He finds the percentage of alcohol in the resulting n points higher than in the original solution. What was the percentage of alcohol of the original solution.	cohol an	nd water s 6 perce	
	what was the percentage of alcohol of the original s	solution	<u>'</u>	