MASSACHUSETTS MATHEMATICS LEAGUE CONTEST 5 - FEBRUARY 2015 ROUND 4 ALG 1: WORD PROBLEMS

ANSWERS

	A) \$
	B) minute
	C) cup
A)	The Kohl's department store is famous for giving discounts of merchandise which has already been discounted. Compute the original price of an article, if the customer pays \$63 after Kohl's has discounted the article 40%, and then discounted an additional 30%.
B)	One day on a cross-country road trip with my family, we started at 10:30AM. I drove at an average of 70 mph for 2 hours, stopped k minutes for lunch, drove for another $3\frac{1}{4}$ hours at an average speed of 60mph and then stopped for the day. My average speed for the entire day was 50 mph. Compute k .
C)	Heavy cream is 41% butterfat, while whole milk contains only 5% butterfat. In order to make a delicious pint of ice cream, a recipe calls for 3 cups of a mixture which is 19% butterfat. Compute the number of cups of heavy cream which must be used to produce the correct butterfat percentage.