MATH 120A

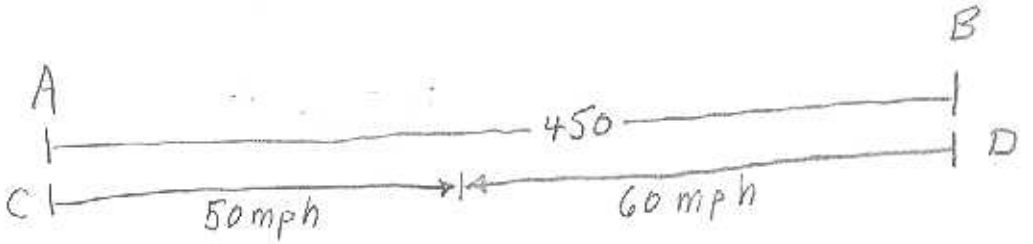
Quiz 6

2004 February 5

Name: ANSWER KEY Score: _____

Set up only the equation for the following problem which perplexes Dagwood. DO NOT SOLVE THIS EQUATION. (1) List the quantities involved, indicating those whose values are known and those which are sought. (2) Write a preliminary analysis in pseudocode. (3) Clearly identify what your unknown represents. Write your work on the back of this page. We hope that you are more successful than Dagwood.

If city A is 450 miles east of city B, and car C leaves A for B at 50 miles an hour, and car D leaves city B for city A at 60 miles an hur, at what point does car C meet D?



Distance = Rate x Time

	Speed	Time	Distance
Car C	50 mph	t hr	50t
Car D	60 mph	t hr	60t

Distance of C + Distance of D = Total Distance

$50t + 60t = 450$

More milk & cookies, anyone?