## Mathematics 122

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## You must show your work to get full credit.

A car increases speed over an hour. The velocity at certain times are given in the following table

t (in hours) | 0 .25 .50 .75 1.00 v (in miles/hour) 45 50 55 65 70

Give an upper, lower and best guess for the distance traveled by this car during the hour.

2 pt Upper estimate: 60

Lower estimate: 53.75

Best guess: 56.875

Upror estimate = 25(50+55+65+10)=60

Lower estimate = .25 (45+50+55+65)=53.75
Bost buss = average of upper and lower  $=\frac{60+53.75}{3}=56.877$