**IME 408 Homework 4; Due August 31**

1) If the Body Shop were asked to move production from 60 to 90 Jobs per Hours, What would be the necessary improvement (%) in the Cycle Time in order to achieve this goal?

Final Speed; 90 JPH 🡺 Cycle Time = 90 parts / 60 minutes = 1.5 parts per hour

Original Speed; 60 JPH 🡺 Cycle Time = 60 parts / 60 minutes = 1 part per hour

33.333% decrease in cycle time needed to go from 60 JPH to 90 JPH

2) A 25% reduction in Cycle Time will yield what Percent improvement in J.P.H.?

60 \* .25 = 15 parts more. Therefore 75 JPH will be possible.