## HW 3: due 11/09

Submit a time study/work sampling "lab" report.

- 1. Using the time study data, perform a time and motion study analysis of the assembly task, including computing the mean and standard deviation of the times recorded.
- 2. Discuss the task as performed and describe possible approaches to simplify the job. Also present other ideas to improve overall productivity.
- 3. Use the activity-time study for the secretary and compute % of time spent in each category using all the data, using a sequential pattern, i.e. recording for the same minute every ten minutes and using a random time for every ten minute time period. Compare the 3 results.
- 4. Develop a learning curve for the jig saw puzzle completion time.

Activity legend: Typing AAAB Filing Wurd General Work ZZZZ Telephone Man Reception EXXX Personal Essas Minutes of Day: 96.2 40.2 186.6 59.2 36.4 61.4	of Day  \[ \begin{align*} 0 & \frac{1}{2} &					1.200   0.00   0	1400 450 5 5 5 5 6 6 5 5 5 5 5 5 5 5 5 5 5 5 5		
Activity legend Minutes of Day:	Time of 18:00 E:20 E:40 E:40	9:50 9:50 9:40	10:00 10:20 10:40	11:00	Lunch	1:00 1:20 1:40	2: 50 2: 50 2: 40	3:00 3:20 3:40	8 2 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Figure 1. Activity-Timestudy of a Secretary for One Day