

**EE 271 Mathematical Engineering** (Sept 18, 2019)

25. The following table shows the hourly wages, hours worked, and output (number of widgets produced) in one week for five widget makers.

	Worker				
	1	2	3	4	5
Hourly wage (\$)	5	5.50	6.50	6	6.25
Hours worked	40	43	37	50	45
Output (widgets)	1000	1100	1000	1200	1100

Use MATLAB to answer these questions:

- How much did each worker earn in the week?
- What is the total salary amount paid out?
- How many widgets were made?
- What is the average cost to produce one widget?
- How many hours does it take to produce one widget on average?
- Assuming that the output of each worker has the same quality, which worker is the most efficient? Which is the least efficient?