

Key.

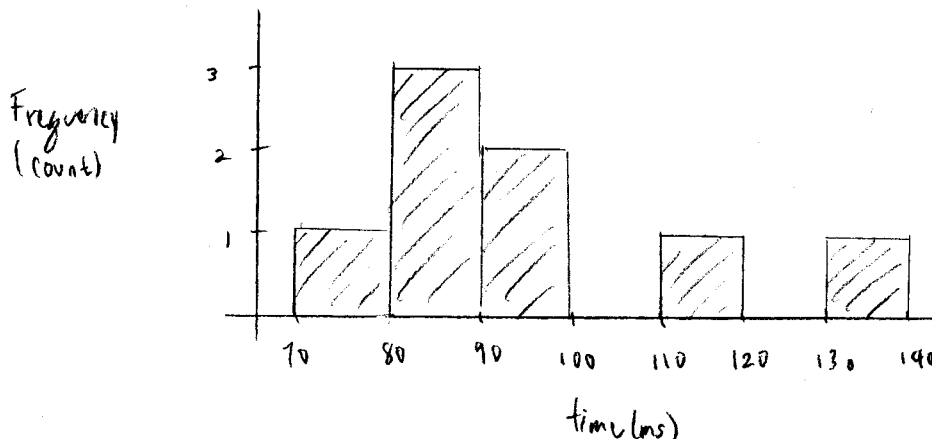
Quiz 1
Statistics for Business (22S:008, Bognar)

January 24, 2007

1. (20 pts) The amount of time (in milliseconds) it took 8 people to respond to a light stimulus is listed below.

137, 99, 83, 85, 85, 93, 72, 110

(a) (6 pts) Make a histogram with 7 bins; make each bin 10 units wide. Be sure to properly label each axis on your graph.



(b) (4 pts) Describe the shape of the distribution in terms of symmetry/skewness.

Skewed to the right.

(c) (5 pts) Compute the median Q_2 . Clearly show your work.

Sorted Data: 72 83 85 85 93 99 111 137

$$Q_2 = \frac{85 + 93}{2} = 89$$

(d) (5 pts) Make a stemplot (stem-and-leaf plot) with 7 stems.

Stem	Leaves
7	2
8	3 5 5
9	3 9
10	
11	1
12	
13	7

* ascending order for leaves
* leaves "line up"