Math 153 - Quiz 4

September 21, 2017

Name ——————————————

Score ————

Show all work to receive full credit. Supply explanations when necessary. YOU MUST WORK INDIVIDUALLY.

Forty-five full-time PSC students were selected at random and asked how many hours per week they normally spend studying outside of class. The results are shown below.

0	0	0	1	1.5	2	2	2	2
2	2	2.5	3	3	3.5	3.5	4	4
4.5	5	5	6	6	6	6	7	7
7	8	8	8	8	9	9	10	10
10	10	12	14	14	15	20	20	25

1. (2 points) Use your calculator to compute the mean and standard deviation.

2. (1 point) Compute the z-score corresponding to 8.5 hours.

3. (1 point) Compute the raw score whose z-score is 3.25.

4. (2 points) What is the value at the 60th percentile?

5. (3 points) Compute the 5-number summary and the cutoff values for outliers.

6. (1 point) Sketch the modified boxplot.