

Statistics 101 Homework Short Report for Topic 01 CD

| Mean | Std.dev | Min | Q1 | Median | Q3 | Max |
|-------|---------|-------|-------|--------|--------|--------|
| 18.99 | 1.14 | 15.00 | 19.00 | 19.00 | 20.00 | 20.00 |
| (95%) | (5.7%) | (75%) | (95%) | (95%) | (100%) | (100%) |

Table 1: Summary statistics of the scores

Each of the 98 students were given 12 questions from a bank of 40 questions. Figure 1 and Table 1 give the overall summary of student performance. Table 2 lists the 1 students who did not perform well on this homework. Table 3 and Figure 2 provide summary statistics of the scores per question set and learning outcome.

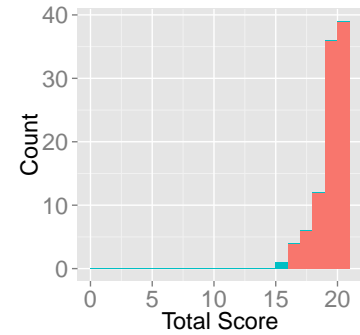


Figure 1: Histogram of scores. Blue data represent scores less than 80 percent.

| % Correct | |
|-----------|-------|
| mkmartin | 75.00 |

Table 2: The student whose percentage is less than 80%.

Topic 01 Learning Outcomes:

- Identify the context of the data by answering the 5 W questions (who, what, where, when, why and how).
- Identify the who and what questions of data based on the structure of the data table.
- Determine the structure of the data table based on given information.
- Determine whether variables are used as quantitative or categorical variables.
- Identify units for a quantitative variable.
- Identify categories for a categorical variable.
- Distinguish between population and sample in a given scenario.

| LO | Qset | # | Mean | Std.dev | Min | Median | Max |
|----|------|----|-------|---------|-------|--------|--------|
| F | F | 6 | 98.98 | 10.10 | 0.00 | 100.00 | 100.00 |
| A | A | 4 | 98.47 | 6.81 | 66.67 | 100.00 | 100.00 |
| B | B | 4 | 97.96 | 9.94 | 50.00 | 100.00 | 100.00 |
| D | D | 10 | 97.35 | 7.94 | 60.00 | 100.00 | 100.00 |
| E | E | 8 | 96.94 | 17.32 | 0.00 | 100.00 | 100.00 |
| C | C | 5 | 88.78 | 31.73 | 0.00 | 100.00 | 100.00 |
| G | G | 3 | 56.12 | 49.88 | 0.00 | 100.00 | 100.00 |

Table 3: Summary statistics of the question sets. Rows are sorted by mean scores, which are marked red if less than 80 percent.

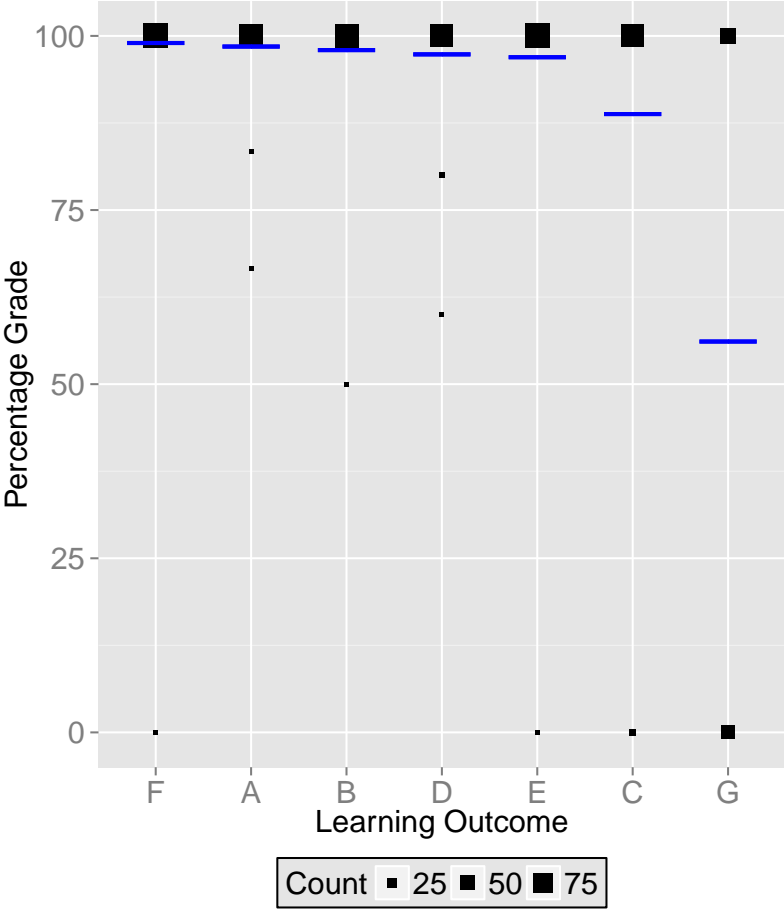


Figure 2: Fluctuation diagram of percentage correct by learning outcome. Mean scores are drawn as blue bars.