**Instructions:** Use the file ‘ByHand.csv’ to answer the following questions.

**Variable Codebook:**

* *Total\_score* : Score (number correct) for a 10-item Science Test
* *Age* : Age of students
* *Height* : Height of students (in inches).
* *Time\_SocialMedia* : Time Spent on Social Media (in minutes) per week.

1. Create a frequency table for the *Total\_score* variable. Include columns for Frequency, Cumulative Frequency, Percentage, and Cumulative Percentage. The *Total\_score* variable ranges from 1 to 10.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Total Score** | **f** | **cf** | **%** | **c%** |
| 1 | 1 | 1 | 6.7% | 6.7% |
| 2 | 0 | 1 | 0% | 6.7% |
| 3 | 2 | 3 | 13.3% | 20% |
| 4 | 0 | 3 | 0% | 20% |
| 5 | 5 | 8 | 33.3% | 53.3% |
| 6 | 2 | 10 | 13.3% | 66.6% |
| 7 | 0 | 10 | 0% | 66.6% |
| 8 | 3 | 13 | 20% | 86.6% |
| 9 | 1 | 14 | 6.7% | 93.3% |
| 10 | 1 | 15 | 6.7% | 100% |

* 1. How many students took the test (what is the sample size)?

15

* 1. What proportion of students received a score of 6?

0.13

* 1. How many students received a score of 6 or lower?

10

* 1. What proportion of students received a score of 6 or lower?

0.66

1. What type of graph is most appropriate for categorical data?
   1. Bar Graph
   2. Histogram
2. What type of graph is most appropriate for continuous data?
   1. Bar Graph
   2. Histogram
3. What is the relationship between the proportion of people with a given score and the area under the curve for that given score?
   1. The area under the curve is the proportion multiplied by 100.
   2. The area under the curve is the proportion divided by 100.
   3. The two values are equivalent.
   4. There is no relationship between the two values.