**Some Rubric (2)**

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| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeSubmission  Code and response follow appropriate styling (nothing running off the page, lengthy data is suppressed, etc.) | |  |  | | --- | --- | | **4 pts**  **Full Marks** | **0 pts**  **No Marks** | | 4 pts |
| This criterion is linked to a Learning OutcomeSubmission  Report is clear and readable with answers appropriately marked by a header or color-coded. | |  |  | | --- | --- | | **4 pts**  **Full Marks** | **0 pts**  **No Marks** | | 4 pts |
| This criterion is linked to a Learning OutcomeSubmission  Report was submitted in the appropriate format | |  |  | | --- | --- | | **4 pts**  **Full Marks** | **0 pts**  **No Marks** | | 4 pts |
| This criterion is linked to a Learning OutcomeProblem 1  Questions are answered correctly in their entirety | |  |  | | --- | --- | | **24 pts**  **Full Marks** | **0 pts**  **No Marks** | | 24 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Correctly answers how human height is measured | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Provides basic description/exploratory analysis of fheight variable | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Checks for missing data across entire dataset | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Computes mean, median, mode, standard deviation, and range of the heights for both fathers and sons | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Discusses the relationship between these numbers and answers all questions | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Plots histogram of the data with appropriate title and labeled axes | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Overlays a plot of the normal distribution with the same mean and standard deviation as the data | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Indicates mean and median of the data using vertical lines of different colors | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2a  Discusses findings including similarities or differences | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Correctly answers how citation counts are measured | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Performs a basic exploratory analysis of data looking at data types, missing values, counts, ranges, or other important characteristics | |  |  | | --- | --- | | **4 pts**  **Full Marks** | **0 pts**  **No Marks** | | 4 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Discusses findings | |  |  | | --- | --- | | **4 pts**  **Full Marks** | **0 pts**  **No Marks** | | 4 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Computes mean, median, mode, standard deviation and range of the citations | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Discusses the relationship between the numbers, answering all questions | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Plots histogram of the data appropriate with title and labeled axes | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Overlays a plot of the normal distribution with the same mean and standard deviation as the data | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Indicates mean and median of the data using vertical lines of different colors | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Discusses findings including similarities or differences | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Plots data on log-log scale with appropriate title and labeled axes | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Indicates mean and median of the data using vertical lines of different colors | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2b  Discusses findings including similarities or differences | |  |  | | --- | --- | | **8 pts**  **Full Marks** | **0 pts**  **No Marks** | | 8 pts |
| This criterion is linked to a Learning OutcomeProblem 2c  Discusses relationship to normal distribution for parts a and b | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| This criterion is linked to a Learning OutcomeProblem 2c  Discusses whether findings make sense in regard to expectations and provides reasoning as to why or why not | |  |  | | --- | --- | | **6 pts**  **Full Marks** | **0 pts**  **No Marks** | | 6 pts |
| Total Points: 200 | | |