**HOMEWORK 1**

Use the weights of freshmen males in September to construct a frequency distribution. Begin with a lower class limit of 50 kg and use a class width of 10 kg.

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| --- | --- | --- | --- |
| 52 | 69 | 72 | 78 |
| 56 | 69 | 72 | 78 |
| 62 | 69 | 73 | 81 |
| 63 | 69 | 75 | 88 |
| 64 | 69 | 75 | 92 |
| 66 | 70 | 75 | 94 |
| 66 | 70 | 76 | 96 |
| 67 | 72 | 78 | 97 |

1. Build the frequency table with relative and cumulative frequencies
2. Draw an histogram to show the distribution of weights
3. Compute cumulative relative frequencies
4. Draw the cumulative distribution function– from the frequency table
5. Calculate the sample mean
6. Calculate the standard deviation
7. Calculate the mode
8. Calculate quartiles and indicate median
9. Identify minimum and maximum value and calculate range
10. Draw a box and whisker plot(also called box-plot)
11. Answer to question in the course web page