## Constructing a Frequency Table and Histogram

Given the following data set, construct a frequency table. We will use the 'Histogram' graphing function on your TI 83/84 calculator.

| 13 | 47 | 10 | 3 | 16 | 20 | 17 | 4 | 2 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 7 | 25 | 8 | 21 | 19 | 15 | 3 | 14 | 6 |
| 12 | 45 | 1 | 8 | 4 | 14 | 11 | 23 | 12 |
| 6 | 2 | 14 | 13 | 7 | 15 | 46 | 9 | 18 |
| 34 | 13 | 41 | 28 | 36 | 17 | 24 | 29 | 9 |
| 14 | 26 | 10 | 24 | 37 | 31 | 16 | 12 | 16 |

Begin entering
this data into L1

[2nd] STAT PLOT choose Plot 1:


Pres[Enter] to turn
Plot 1 On


We want 10 classes with a lowest limit of 1 . Select 'Window' to set.


Now [GRAPH] and [TRACE] to construct your frequency table.


Continue scrolling to complete the Frequency Table. See next page -->

| Lower <br> Class | Lower <br> Class | Upper <br> Class | Upper <br> Class | Class <br> Boundary | Limit |
| :--- | ---: | :---: | :---: | :---: | :---: |
| 0.5 | 1 | $\underline{\text { Limit }}$ | Boundary | MidPoint | Frequency |
| 5.5 | 6 | 10 | 5.5 | 3 | 7 |
| 10.5 | 11 | 15 | 10.5 | 8 | 10 |
| 15.5 | 16 | 20 | 15.5 | 13 | 13 |
| 20.5 | 21 | 25 | 20.5 | 18 | 8 |
| 25.5 | 26 | 30 | 25.5 | 23 | 5 |
| 30.5 | 31 | 35 | 30.5 | 28 | 3 |
| 35.5 | 36 | 40 | 35.5 | 33 | 2 |
| 40.5 | 41 | 45 | 40.5 | 38 | 2 |
| 45.5 | 46 | 50 | 45.5 | 43 | 2 |
|  |  |  | 50.5 | 48 | 2 |

