



MATH225

Displaying Data

Frequency Distributions and Their Graphs

A **Frequency table** is a table that shows **classes** or intervals of data with a count of the number of entries in each class. The **frequency** of a class is the number of data entries in the class.

<u>Class</u>	<u>Frequency, f</u>
1–5	5
6–10	8
11–15	6
16–20	8
21–25	5
26–30	4

Constructing a Frequency Distribution from a Data Set

1. Decide on the number of classes to include in the frequency distribution. (This will be given to you in your homework).
2. Find the Class Width.
 - a) Find the range of the data. (**highest - lowest data value**)
 - b) Divide the range by the number of classes.
 - c) **Round UP** to the next convenient number.
3. Find the Class Limits.
 - a) Use the minimum data entry as the lower limit of the first class.
 - b) Add the class width to the lower limit to find the lower limit of the next class.

4. Make a tally mark for each data entry in the appropriate class.