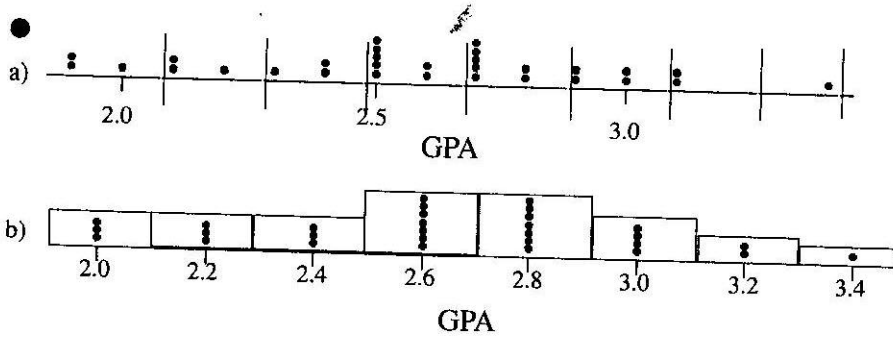


Grade Point Averages of 30 Bucknell University Freshmen

2.0	3.1	1.9	2.5	1.9
2.3	2.6	3.1	2.5	2.1
2.9	3.0	2.7	2.5	2.4
2.7	2.5	2.4	3.0	3.4
2.6	2.8	2.5	2.7	2.9
2.7	2.8	2.2	2.7	2.1



Definition A **relative frequency histogram** for a quantitative data set is a bar graph in which the height of the bar shows “how often” (measured as a proportion or relative frequency) measurements fall in a particular class or subinterval. The classes or subintervals are plotted along the horizontal axis.

To construct the relative frequency histogram, plot the class boundaries along the horizontal axis. Draw a bar over each class interval, with height equal to the relative frequency for that class. The relative frequency histogram for the GPA data, Figure 1.15, shows at a glance how GPAs are distributed over the interval 1.9 to 3.5.

Relative Frequencies for Data of Table 1.9

Class	Class Boundaries	Tally	Class Frequency	Class Relative Frequency
1	1.9 to <2.1		3	3/30
2	2.1 to <2.3		3	3/30
3	2.3 to <2.5		3	3/30
4	2.5 to <2.7		7	7/30
5	2.7 to <2.9		7	7/30
6	2.9 to <3.1		4	4/30
7	3.1 to <3.3		2	2/30
8	3.3 to <3.5		1	1/30

