Constructing Frequency Distributions. ***In Exercises 11–18, use the indicated data to construct the frequency distribution. (The data for Exercises 13–16 can be downloaded at TriolaStats.com.)***

11. Old Faithful Listed below are sorted duration times (seconds) of eruptions of the Old Faithful geyser in Yellowstone National Park. Use these times to construct a frequency distribution. Use a class width of 25 seconds and begin with a lower class limit of 125 seconds.

125	203	205	221	225	229	233	233	235	236	236	237	238	238	239	240	240
240	240	241	241	242	242	242	243	243	244	245	245	245	245	246	246	248
248	248	249	249	250	251	252	253	253	255	255	256	257	258	262	264	

12. Tornadoes Listed below are the F-scale intensities of recent tornadoes in the United States. Construct a frequency distribution. Do the intensities appear to have a normal distribution?

0	4	0	0	1	1	1	0	0	0	1	2	0	1	1	0	1	0	1	1	1	1	0
0	1	0	0	1	0	0	1	1	1	3	0	0	0	2	0	3	0	0	0	0	0	

13. Burger King Lunch Service Times Refer to Data Set 25 "Fast Food" and use the drive-through service times for Burger King lunches. Begin with a lower class limit of 70 seconds and use a class width of 40 seconds.

14. Burger King Dinner Service Times Refer to Data Set 25 "Fast Food" and use the drive-through service times for Burger King dinners. Begin with a lower class limit of 30 seconds and use a class width of 40 seconds.

15. Wendy's Lunch Service Times Refer to Data Set 25 "Fast Food" and use the drive-through service times for Wendy's lunches. Begin with a lower class limit of 70 seconds and use a class width of 80 seconds. Does the distribution appear to be a normal distribution?

16. Wendy's Dinner Service Times Refer to Data Set 25 "Fast Food" and use the drive-through service times for Wendy's dinners. Begin with a lower class limit of 30 seconds and use a class width of 40 seconds. Using a loose interpretation of a normal distribution, does this distribution appear to be a normal distribution?

17. Analysis of Last Digits Heights of statistics students were obtained by the author as part of an experiment conducted for class. The last digits of those heights are listed below. Construct a frequency distribution with 10 classes. Based on the distribution, do the heights appear to be reported or actually measured? What do you know about the accuracy of the results?

0	0	0	0	0	0	0	0	0	1	1	2	3	3	3	4	5	5	5	
5	5	5	5	5	5	5	5	5	5	5	5	6	6	8	8	8	9		