2.1 and 2.2 part 1 homework: p.51-53 #4,8,10,20,21

4. The accompanying frequency distribution summarizes the heights of a sample of people in Vassar Road Elementary School. What can you conclude about the people included in the sample?

Height (in.)	Frequency
35-39	6
40-44	31
45-49	67
50-54	21
55-59	0
60-64	0
65-69	6
70-74	10

8. Use the following frequency distribution to identify the class width, class midpoints, and class boundaries.

Years President Lived	Frequency	Class width =
after First Inauguration		
0-4	8	
5-9	2	
10-14	5	Class midpoints =
15-19	7	
20-24	4	
25-29	6	Class boundaries =
30-34	0	
35-39	1	

10. Use the following frequency distribution to identify the class width, class midpoints, and class boundaries.

=

White Blood Cell Count of Females	Frequency	Class width =
3.0-4.9	6	
5.0-6.9	16	
7.0-8.9	9	Class midpoints =
9.0-10.9	7	
11.0-12.9	0	
13.0-14.9	2	Class boundaries =

20. Weights of respondents were recorded as part of the California Health Interview Survey. The last digits of weights from 50 randomly selected respondents 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?

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

21. Use the following male pulse rates (beats per minute) from Data Set 1 in Appendix B: Body Measurements from the National Center for Health Statistics. Begin with a lower class limit of 40 and use a class width of 10.

Male Pulse Rates (beats per minute):

60, 74, 86, 54, 90, 80, 66, 68, 68, 56, 80, 62, 74, 60, 52, 60, 66, 64, 64, 46, 68, 58, 68, 70, 56, 66, 78, 68, 62, 70, 72, 74, 64, 50, 70, 58, 60, 88, 84, 76