

Name: _____ Ch 2.4 Review Worksheet

Find the mean, median, mode, and midrange. Then determine if the distribution is symmetrical or skewed.

1. Twelve secretaries were given a typing test and the times (in minutes) to complete were as follows: 8, 12 15, 9, 6, 8, 10, 9, 8, 6, 7, 8.
2. Ten novels were randomly selected and the number of pages were recorded as follows:
415, 398, 402, 399, 400, 405, 395, 401, 412, 407.
3. The following data are the number of burglaries reported in 1996 for nine western Pennsylvania universities. Which measure of average might be the best in this case?
61, 11, 1, 3, 2, 30, 18, 3, 7

Find the mean, median, and modal class. Then determine if the distribution is symmetrical or skewed for questions 4 – 7.

4. For 108 randomly selected college students, the following exam score frequency distribution was obtained.

<u>Class limits</u>	<u>frequency</u>
90-98	6
99-107	22
108-116	43
117-125	28
126-134	9

5. For 50 antique car owners, the following frequency distribution of the car's ages were obtained.

<u>Class limits</u>	<u>frequency</u>
16-18	20
19-21	18
22-24	8
25-27	4

6. Thirty automobiles were tested for fuel efficiency (mpg). The following frequency distribution was obtained.

<u>Class boundaries</u>	<u>frequency</u>
7.5-12.5	3
12.5-17.5	5
17.5-22.5	15
22.5-27.5	5
27.5-32.5	2

7. The following numbers of books were read by each of the 28 students in literature class.

<u>Number of books</u>	<u>frequency</u>
0-2	2
3-5	6
6-8	12
9-11	5
12-14	3

8. An instructor grades as follows: exams 20%, term paper 30%, final exam 50%. A student had grades of 83, 72, and 92, respectively, for exams, term paper, and final exam. Find the student's final average.

9. Another instructor gives 4 1-hour exams and one final exam, which counts as 2 1-hour exams. Find the student's grade if she received 62, 83, 97, and 90 on the hour exams and 82 on the final.

For the following situations, state which measure of central tendency—mean, median, or mode—should be used.

10. The most typical.
11. There is an extreme value in the data set.
12. When looking at the salaries for a business.