

14 . 2 Measures of Central Tendency

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Key Terms:

Measures of Central Tendency
Mean
Median
Mode
Five Number Summary
Box plot

Name: _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Find the mean, median, and mode for the given distribution.

- 1) 8, 6, 4, 11, 13, 8, 8, 6, 11, 13, 8, 4, 15, 11, 8, 8, 4, 6, 11, 8
- 2) 6, 4, 2, 8, 11, 6, 6, 4, 8, 11, 6, 2, 13, 8, 6, 6, 2, 4, 8, 6
- 3) 11, 9, 7, 5, 12, 11, 11, 9, 5, 12, 11, 7, 15, 5, 11, 11, 7, 9, 5, 11

Solve the problem. Round to the nearest hundredth, if necessary.

- 4) The following data gives the number of applicants that applied for a job at a given company each month of 1999: 64, 67, 96, 77, 78, 84, 87, 89, 90, 96, 72, 64. What is the mode of the data?
- 5) A major league baseball player got the following number of hits during each year of his career: 55, 112, 183, 177, 184, 188, 190, 178, 158, 167, 151, 142, 116, 40. What is the mode of the data?

Solve the problem.

- 6) Assume that in your linguistics class you have earned the following test scores: 88, 71, 57, 60; and only one test remains. If you need a mean score of 70 to earn a "C", then what minimum score must you obtain on the last test?

- 7) Assume that in a 31-day month you begin with a \$30 balance due on your credit card, charge an item for \$75 on the 15th and an item for \$100 on the 20th of the month. What is your average daily balance on your credit card for this month?

Construct a box-and-whisker plot for the given data.

- 8) The test scores of 32 students are listed below.

32	37	41	44	46	48	53	55
57	57	59	63	65	66	68	69
70	71	74	74	75	77	78	79
81	82	83	86	89	92	95	99

- 9) The normal monthly precipitation (in inches) for August is listed for 20 different U.S. cities.

0.4	1.0	1.5	1.6	2.0
2.2	2.4	2.7	3.4	3.4
3.5	3.6	3.6	3.7	3.7
3.9	4.1	4.2	4.2	7.0