| NAME: | | | | HOMEWORK 10.2 | | |
|-------|--|---|--------------------------|--|----------------|--|
| DATE: | | | | | ALGEBRA | |
| 1. | For t a. c. | he set of data 5, 5, 6, 7, 7 mean = mode median = mode | , whic b. d. | h statement is true mean < median mean = median | ? | |
| 2. | Whe a. c. | n the data consists of 3, 4 mean > median mean > mode | 4, 5, 4, b. d. | 3, 4, 5, which state median < mode mean = median | ement is true? | |
| 3. | For v a. c. | vhich set of data is there 2, 1, 3, 2, 1 1, 2, 3, 3, 3 | e no mo b. d. | ode? 1, 2, 4, 3, 5 2, 2, 3, 3, 3 | | |
| 4. | For v a. c. | vhich set of data is there 8, 7, 7, 8, 7 8, 7, 4, 5, 6 | e more b. d. | than one mode? 8, 7, 5, 7, 6, 5 1, 2, 2, 3, 3, 3 | | |
| 5. | Wha a. c. | t <i>must</i> be a value in the c mean mode | lata se b. m d. no | ta set? b. median d. none of these | | |
| 6. | If the heights, in centimeters, of a group of students are 180, 180, 173, 170, and 167, what is the mean height of these students? | | | | | |
| 7. | The t medi | The test scores for an exam were 62, 67, 67, 70, 90, 93, and 98. What is the median test score? | | | | |
| 8. | Sid r | Sid received grades of 92, 84, and 70 on three tests. Find his test average. | | | | |

9. What is the median age of a family whose members are 42, 38, 14, 13, 10 and 8 years old?

- 10. Find the mean, median, and mode of this data set: -2, 5, 10, -6, 7, 5, -2, 5, 10, -15, 14
- 11. Sarah's grades were 80 on each of two of her tests and 90 on each of three other tests. Find her test average.
- 12. Andy has grades of 84, 65, and 76 on three social studies tests. What grade must he obtain on the next test to have an average of exactly 80 for the four tests?
- 13. Rosemary has grades of 90, 90, 92, and 78 on four English tests. What grade must she obtain on the next test so that her average for the five tests will be 90?
- 14. The average grade on a test taken by 20 students was 75. When one more student took the test after school, the class average became 76. What score did that student receive?
- 15. The weekly salaries of six employees in a small firm are: \$440, \$445, \$445, \$450, \$450 and \$620.
 - a. Find the mean.
 - b. Find the median.
 - c. Find the mode.
 - d. If negotiations for new salaries are in session and you represent management, which measure of central tendency will you use as the average salary? Explain your answer.
 - e. If negotiations are in session and you represent the labor union, which measure of central tendency will you use as the average salary? Explain your answer.