

Algebra II
Statistics 2

Name _____

Find the mean, variance and standard deviation for each data set. Do these problems without using the statistics technology on your calculator.

1. 12, 3, 2, 4, 5, 7

2. 60, 40, 35, 45, 39

Using your graphing calculator and its statistics technology, find the mean, standard deviation, 5-number of summary and show a boxplot for each of the following data sets.

3. The most recent test scores for a math class are displayed in the table below.

Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Score	77	86	79	94	40	82	76	97	65	77	89	78	84	88	79

4. Your sister's bowling scores for the last 12 games are displayed in the table below.

Game	1	2	3	4	5	6	7	8	9	10	11	12
Score	212	187	176	205	193	229	201	175	203	216	227	235

5. For #3, are there any outliers? Show work to justify your answer.

6. Your brother is buying his textbooks for his first semester of college. The price of each of his books is shown in the table below. The mean of the data set is 65.85 and the standard deviation is about 36. Within how many standard deviations of the mean do all of the prices fall?

Book	1	2	3	4	5	6
Price	\$25.60	\$57.00	\$38.25	\$126.40	\$84.00	\$63.85

7. How is standard deviation similar to range and interquartile range?