Measure of Consistency

Name_____

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

Find the range for the given data.

1) Jeanne is currently taking college economics. The instructor often gives quizzes. On the past five quizzes, Jeanne got the following scores:
    5 20 4 14 12
Compute the range.

1) _____

2) Rich Borne is currently taking Chemistry 101. On the five laboratory assignments for the quarter, he got the following scores:
    30 37 20 46 56
Compute the range.

2) _____

3) The owner of a small manufacturing plant employs six people. As part of their personnel file, she asked each one to record to the nearest one–tenth of a mile the distance they travel one way from home to work. The six distances are listed below:
    2.9 5.6 1.6 4.7 6.2 3.5
Compute the range.

3) _____

4) A class of sixth grade students kept accurate records on the amount of time they spent playing video games during a one–week period. The times (in hours) are listed below:
    24.5 25.1 8.9 20.8 25.1
    30.9 20.2 11.1 11.2 13.8
Compute the range.

4) _____

Find the variance for the given data. Round your answer to one more decimal place than the original data.

5) Compute the variance. To get the best deal on a microwave oven, Jeremy called six appliance stores and asked the cost of a specific model. The prices he was quoted are listed below:
$159 $135 $437 $608 $134 $379

5) _____

6) Compute the variance. A class of sixth grade students kept accurate records on the amount of time they spent playing video games during a one–week period. The times (in hours) are listed below:
10.7 20.7 11.5 15.4 19.3
24.9 30.7 15.4 18.2 16.9

6) _____

Find the standard deviation for the given data. Round your answer to one more decimal place than the original data.

7) The manager of a small dry cleaner employs six people. As part of their personnel file, she asked each one to record to the nearest one–tenth of a mile the distance they travel one way from home to work. The six distances are listed below:
    13.5 15.3 34.6 38.2 15.1 12.4
Compute the standard deviation s.

7) _____

8) To get the best deal on a CD player, Tom called eight appliance stores and asked the cost of a specific model. The prices he was quoted are listed below:
$168 $126 $122 $316 $296 $374 $158 $293
Compute the standard deviation s.

8) _____

Find the standard deviation of the data summarized in the given frequency distribution .

9) A company had 80 employees whose salaries are summarized in the frequency distribution below. Find the standard deviation.

9) _____

Salary	Employees
5,001 – 10,000	16
10,001 – 15,000	11
15,001 – 20,000	16
20,001 – 25,000	11
25,001 – 30,000	26

10) The manager of a bank recorded the amount of time each customer spent waiting in line during peak business hours one Monday. The frequency distribution below summarizes the results. Find the standard deviation. Round your answer to one decimal place.

10) _____

Waiting time (minutes)	Number of customer
0 – 3	9
4 – 7	16
8 – 11	8
12 – 15	15
16 – 19	0
20 – 23	2

1) 16
2) 36
3) 4.6
4) 22
5) $38,817.1
6) 36.31
7) 11.63
8) $98.5
9) s = 7651.4
10) 5.2