Algebra I Practice S.ID.A.2: Dispersion
www.jmap.org

NAME:_____

1. Find the standard deviation for the given data. 4, 6, 6, 13, 11

   [A] 3.92 [B] 11.60

   [C] 6.32 [D] 3.41

2. Find the standard deviation for the set of data. {3, 4, 10, 14, 14}

   [A] 22.40 [B] 4.73

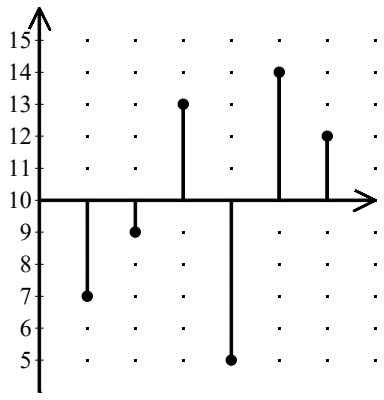
   [C] 6.71 [D] 45.00

3. What is the standard deviation of this data?
   423, 398, 401, 411, 413, 420, 397, 409

4. Use a graphing calculator to find the standard deviation for this data.
   1.2, 3.4, 1.5, 2.6, 3.1, 2.5, 1.9, 2.3

5. Find the standard deviation for the given data. 3, 8, 10, 12, 7

6. The graph shows the differences from the mean in a set of data. Find the standard deviation of the data set.



7. What is the difference between the interquartile range and the standard deviation for this set of data?
   3, 4, 4, 5, 7, 9, 10

   [A] 5 [B] 7 [C] 2.49 [D] 0.29

8. Find the variance for the following set of data. 20, 7, 15, 4, 22, 17, 7, 21, 13

   [A] 38.67 [B] 37.56

   [C] 39.78 [D] 36.45

9. Find the range and the mean deviation of the chemistry scores for Ms. Martinez's class. Round your answer to the nearest hundredth. 98, 75, 93, 81, 56, 67, 76, 85, 71

   [A] range: 42
   mean deviation: 10.5

   [B] range: 31
   mean deviation: 9

   [C] range: 42
   mean deviation: 9.5

   [D] range: 42
   mean deviation: 10

10. This chart shows the weekly salary of five employees working at company ABC.

Employee Number	Salary
3201	$612
2734	$588
2461	$604
3582	$625
3144	$621

Find the mean and standard deviation of this data.

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[1] D

[2] B

[3] 9.12

[4] 0.7061117121

[5] 3.03

[6] 3.27

[7] C

[8] C

[9] D

[10] $610; 13.19