Math 153 - Quiz 3

February 18, 2016

Name _	key		
	0	C	
		Score	

Show all work to receive full credit. Supply explanations when necessary.

- 1. (1 point) Fill in the blank with an appropriate word or phrase: The standard deviation is a measure of the Spread of a data set.
- 2. (1 point) What must be true of a data set if its standard deviation is zero?

ALLTHE DATA VALUES MUST BE THE SAME.

3. (2 points) Compute the sample standard deviation: $\{1, 1, 2, 4, 5, 6, 6, 7\}$

CALCULATOR SAYS

S & 2.39

4. (6 points) Listed below are amounts spent by candidates in running campaigns for local county board seats.

\$45, 263 \$39, 875 \$29, 500 \$53, 276 \$79, 034 \$55, 611

Based on these numbers, would it be unusual for a candidate to spend \$80,000? What about \$15,000?

 $\overline{X} = 50426.50$

S = 16907. 41

X+2s≈ 84241.32 ← GREATER THAN

ZI ZIHT JAUZUUL

\$ 80,000 15 NOT UNUSUAL,

BUT \$15,000 IS UNUSUAL.