

**East Los Angeles College**  
**Department of Mathematics**

**Math 227**  
**Test 1**

*Show work for credit.*

How many absences do you have in your Statistics class?

The following data was collected in days.

**6, 2, 0, 2, 1, 2, 1**

1. Determine the mean of this data approximated to the nearest tenths.
2. Determine the median of this data.
3. Determine the mode for this data.
4. Determine the variance for this data approximated to the nearest tenths.
5. Determine the standard deviation for this data approximated to the nearest tenths.

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How long did you wait in line (minutes) to buy your Statistics Textbook?

The following data was gathered and organized into a frequency table. Fill in the table below and approximate the **relative frequency** to the nearest **thousandths**.

Min	f	rf	Percent	m
0 to 3	8			
4 to 7	10			
8 to 11	12			
12 to 15	6			
16 to 19	2			

Using the table above, what percent of the students waited for:

6. At least 4 minutes?
7. No more than 15 minutes?
8. Between 4 and 15 minutes?
9. More than 7 minutes?
10. Less than 8 minutes?

11. What is the mean for this distribution? Approximate to the nearest tenths
12. What is the variance for this distribution? Approximate to the nearest tenths
13. What is the standard deviation for this distribution? Approximate to the nearest tenths.
14. Create a Histogram describing this distribution.
15. Create a frequency polygon describing this distribution.

16. Determine who had the better GPA for the semester. Hannah Montana or Miley Cyrus? Approximate the GPA's to the nearest hundredths.

Hannah  
Montana

Miley Cyrus

Course	Units	Grade
Statistics	4	C
English	3	B
PE	1	D
Chemistry	5	A
Health	2	F

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Grading on a curve?

17. Test scores were gathered and a mean was determined to be 104.6 with a standard deviation of 22.3. Approximate z-scores to the nearest hundredths.

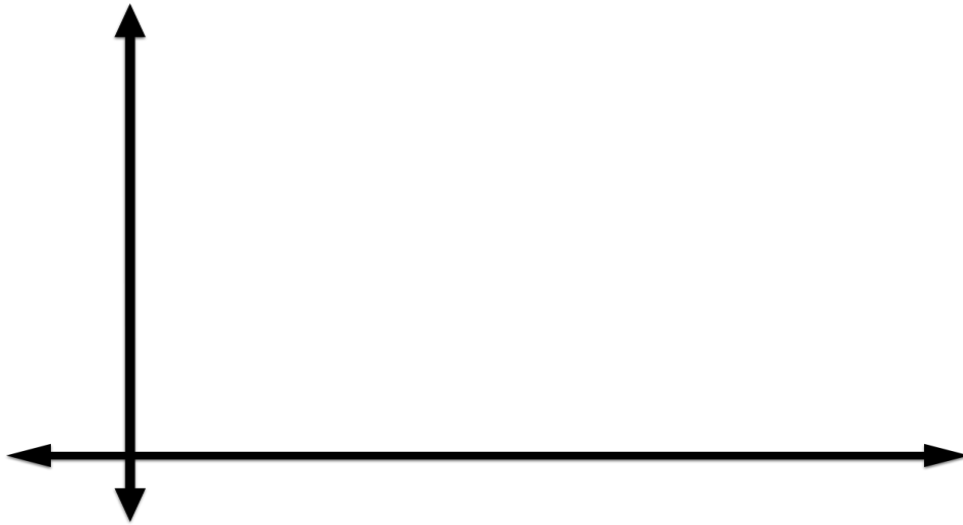
Name	Test Score	Z-Score	Standard Grade	Curved Grade
Maria	150			
Jessica	138			
Eric	123			
Lyle	110			
Francis	92			
Sam	36			

18. What's your name?

Answer Sheet

1		10	
2		11	
3		12	
4		13	
5		14	Use Graph
6		15	Use Graph
7		16	
8		17	See Table
9		18	

Graph Paper  
14.



15.

