East Los Angeles College
Department of Mathematics
Math 227MW
Test 1 Study Guide

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Show work for credit.

How many absences do you have in your Statistics class?

The following data was collected in days.

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

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.

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 5	8			
6 to 11	12			
12 to 17	6			
18 to 23	8			
24 to 29	2			

Using the table above, what percent of the students waited for:
6. At least 6 minutes?
7. No more than 17 minutes?
8. Between 6 and 23 minutes?
9. More than 23 minutes?
10. Less than 12 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

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

Miley Cyrus

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

Grading on a curve?

17. Test scores were gathered and a mean was determined to be 105.2 with a standard deviation of 28.6. Approximate z-scores to the nearest hundredths.
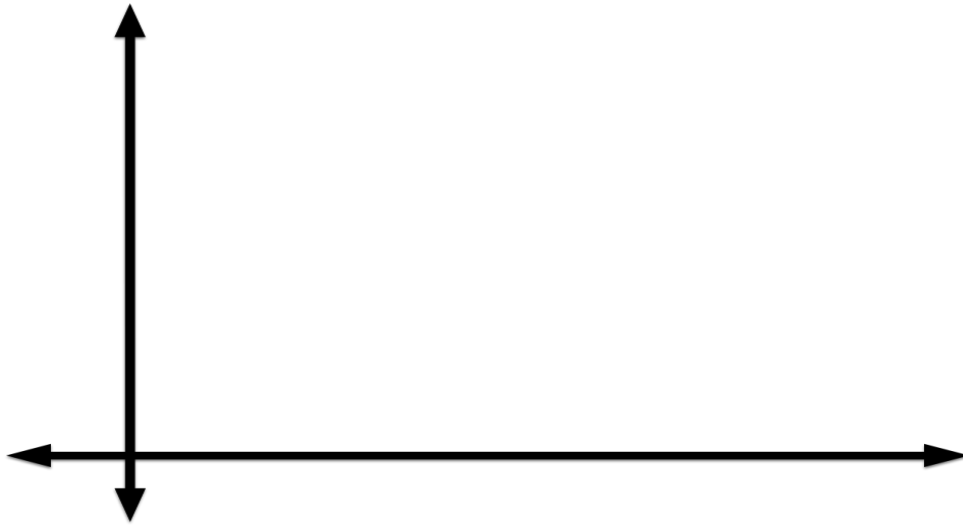
Name	Test Score	Z-Score	Standard Grade	Curved Grade
Maria	150			
Jessica	138			
Eric	123			
Lyle	110			
Francis	92			
Sam	36			

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.