

Math 225 : Statistics - Test#1
Los Angeles City College - Fall 2004

Dr.Kian Kaviani

Name_____

1. Use the following data for problems # 1 - 16 : **Data:**
12,24,34,43,26,41,24,21,42,39,16,24,12,24,10,37,34
2. Find the arithmetic mean of this data. (3 pts.)
3. Find the standard deviation of this data. (6 pts.)
4. Find the variance of this data. (2 pts.)
5. Find the mode of this data. (2 pts.)
6. Find the median of this data. (4 pts.)
7. Find the range of this data. (2 pts.)
8. Find the mid range of this data (2 pts.)
9. What are the maximum and minimum values separating the "usual" from the "unusual" values (4 pts.)
10. Find the perccentile of the most frequent data. (5 pts.)
11. What score from the above data corresponds to the 40 percentile. (5 pts.)
12. Find the score corresponding to Q2 (5 pts.)
13. What scores corresponds to the boundries of the region of inclusion of 68% of the data using a Bell-shaped (normal) distribution of the data. (6 pts.)
14. Find the Z score corresponding to the most frequent data (2 pts.)
15. Construct a frequency table with 5 classes for this data and find all the class boundaries (10 pts.)
16. Construct a histogram for this data (6 pts.)
17. Construct an Ogive plot for this data (1 pts.)
18. Construct a frequency polygon for this data (1 pts.)
19. Construct an Stem-and-Leaf (denominations of tens for Stem and ones for Leafs) (4 pts.)
20. Construct the box plot for this data (6 pts.)

Use the following frequency table to find the answers to problems # 20 - 23 :

SCORE	Frequency
1 – 10	14
11 – 20	22
21 – 30	35
31 – 40	18
41 – 50	10

21. Find the Arithmetic Mean. (5 pts.)
22. Construct the relative and cumulative frequency tables (4 pts.)
23. Construct a relative frequency histogram (3 pts.)
24. Find the standard deviation.of this data (12 pts.)