

T1

[Math 111 | Prof. B | York College | Sep 23 |

There are 10 problems. Each problem is 10 points (10X 100) =100

1. Identify the classification of four types of data SAT Score, Ranking of Football players, Eye color and age
 - a. Nominal, ordinal, interval and ratio
 - b. Ordinal, Nominal, interval and ratio
 - c. Ratio, Nominal, ordinal and interval
 - d. Interval, ordinal, nominal and ratio
 - e. Interval, Nominal, ordinal and ratio

2. Twenty-four army inductees were given a blood test to determine their blood type. What percent of data represent blood type B. The data set is
A, B, B, AB, O, O, B, AB, B, B, B, O, A, O, A, O, O, O, AB, AB, A, O, B, A
 - a. 25%
 - b. 26%
 - c. 27%
 - d. 28%
 - e. 29%

3. A group of 25 people were observed regarding their TV habits and were found to spend the following number of hours per week watching television: 30, 32, 34, 36, 36, 37, 39, 39, 41, 41, 42, 42, 43, 43, 44, 45, 45, 45, 46, 47, 47, 49, 49, 52, 53. Determine the class width for four (4) classes:
 - a. 4
 - b. 5
 - c. 6
 - d. 7
 - e. 8

Solve Question 4-5 using info below: A consumer testing service obtained the following mileage (in miles per gallon) in five test runs for three different types of compact cars:

	First Run	2nd Run	3rd Run	4th Run	5th Run
Car A	28	32	28	34	30
Car A	31	31	29	29	31
Car A	32	29	28	32	30

4. If the manufacturer of Car A wants to advertise that their car performed the best in this test, which measure of central tendency (mean, median or mode) should be used to support their claim?

(1) Mean (2) Median (3) Mode (4) Weighted average

5. Which measure should the manufacturer of Car C use to support a similar claim?

(1) Mean (2) Median (3) Mode (4) Weighted average

6. Find the Standard deviation of 3, 1, 5

1. Standard deviation is 1
2. Standard deviation is 2
3. Standard deviation is 2
4. Standard deviation is 4

7. A student received a D in Math 111 (4 credits), a C in Arts (3 credits), a B in Drawing I (4 credits), and a A Music (1 credit). Assuming A 4 grade points, B 3 grade points, C 2 grade points, D 1 grade point, and F 0 grade points, find the student's grade point average?

1. The grade point average is 2.7
2. The grade point average is 2.2
3. The grade point average is 3.2
4. The grade point average is 3.2

8. The mean value of the scores in a Statistics exam was 85 with a standard deviation of 4. Find an interval that contains at least 75% of the scores in that exam.

1. [70,90] (2) [71,91] (3) [77,93] (4) [87,93]

9. Prof. Bari gives a 20-point test to 10 students. The scores are shown here. Find the percentile rank of a score of 10. 18, 15, 12, 6, 8, 2, 3, 5, 20, 10

1. 65th Percentile (2) 55th Percentile (3) 75th Percentile (4) 50th Percentile

10. Find the z score for each test, and state which is higher.

Test A	38	$\bar{X} = 40$	$s = 5$
Test B	90	$\bar{X} = 40$	$s = 10$

- (1) The score for test B is relatively higher than the score for test A
- (2) The score for test A is relatively higher than the score for test B.
- (3) The score for test A is same as the score for test B.
- (4) Not enough information is given to solve this problem.