

1.(1 pt) The length (pgs) of math research projects is given below. Using this information, calculate the range, variance, and standard deviation.

32, 22, 19, 19, 53, 25, 26, 47, 38, 41, 10

range = _____
 variance = _____
 standard deviation = _____

2.(1 pt)

Calculate the mode, mean, and median of the following data:

24, 16, 18, 18, 20, 22, 18, 14

Mode = _____
 Mean = _____
 Median = _____

3.(1 pt) Given the data set below, calculate the range, variance, and standard deviation.

41, 23, 18, 53, 18, 32, 46, 7, 26

range = ____ variance = ____ standard deviation = ____

4.(1 pt) For each of the given the data sets below, calculate the mean, variance, and standard deviation.

(a) 75, 53, 46, 80, 76, 65, 23, 24, 61

mean = ____ variance = ____ standard deviation = ____

(b) 41, 42, 46, 50, 45, 42

mean = ____ variance = ____ standard deviation = ____

(c) 4.4, 2.7, 2.2, 4.7, 4.3

mean = ____ variance = ____ standard deviation = ____

5.(1 pt) Calculate the mean and median of the following grades on a math test:

86, 83, 83, 80, 79, 78, 77, 70, 61, 51, 30

Mean = _____
 Median = _____

Is this data set skewed to the right, symmetric, or skewed to the left?

(Enter SR, SYM, or SL);

6.(1 pt) If the average low temperature of a winter month in Rochester, NY is 19° and the standard deviation is 5.8, then according to Chebyshev's theorem, the percentage of averages low temperatures in Rochester, NY between 7.4° and 30.6° is ____ %.

7.(1 pt) Calculate the mean and median of the following data:

-7, -6, -3, 8, 11

Mean = _____
 Median = _____

Is this data set skewed to the right, symmetric, or skewed to the left?

(Enter SR, SYM, or SL.)

8.(1 pt) Find the indicated decile of the following data set

41, 21, 24, 16, 30, 16, 36, 19, 60, 15, 52, 47

D_3 = _____

9.(1 pt)

IQ scores have a mean of 100 and a standard deviation of 15. Ted has an IQ of 106.

What is the difference between Ted's IQ and the mean? _____

Convert Ted's IQ score to a z score: _____

10.(1 pt)

Kate took 4 courses last semester: Biology, History, Physics, and Spanish. The means and standard deviations for the final exams, and Kate's scores are given in the table below. Convert Kate's score into z scores.

Subject	Mean	Stand. dev.	Kate's score	Kate's z score
Biology	77	10	92	_____
History	53	16	65	_____
Physics	60	14	63.5	_____
Spanish	44	12	59	_____

On what exam did Kate have the highest relative score?

(Enter the subject.) _____

11.(1 pt)

Here is a list of 25 scores on a Math midterm exam:

38.5, 41.5, 52, 52.5, 61, 63, 63.5, 68, 69, 69, 78.5, 79, 80, 83, 87, 88.5, 88.5, 91, 91.5, 92, 92.5, 94, 94, 97, 97

Find P_{32} : _____

12.(1 pt)

Here is a list of 27 scores on a Statistics midterm exam:

20, 30, 31, 32, 46, 48, 49, 52, 54, 59, 61, 69, 71, 73, 74, 79, 81, 81, 81, 85, 86, 87, 88, 91, 94, 96, 97

Find Q_3 : _____