Determine whether the given value is a statistic or a parameter. 1) A health and fitness club surveys 40 randomly selected members and found that the average weight of those questioned is 157 lb.							
	A) Statistic		B) Parameter				
Determine whether the given value is from a discrete or continuous data set.							
	2) The number of freshmen en	tering college in a certain	year is 621.		2)		
	A) Continuous		B) Discrete				
	3) The height of 2-year-old maple tree is 28.3 ft.						
	A) Discrete		B) Continuous				
Determine which of the four levels of measurement (nominal, ordinal, interval, ratio) is most appropriate.							
	4) The sample of spheres categorized from softest to hardest.						
	A) Nominal	B) Ordinal	C) Ratio	D) Interval			
	5) Salaries of college professors.						
	A) Ratio	B) Nominal	C) Ordinal	D) Interval	, <u> </u>		
	,	,	,	,			
6) Nationalities of survey respondents							
	A) Nominal	B) Ratio	C) Ordinal	D) Interval	-,		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,	-,	-,			

Identify the sample and population. Also, determine whether the sample is likely to be representative of the population.
7) In a poll of 50,000 randomly selected college students, 74% answered "yes" when asked "Do you have a television in your dorm room?".

Use critical thinking to address the key issue.

- 8) "38% of adults in the United States regularly visit a doctor". This conclusion was reached by a college student after she had questioned 520 randomly selected members of her college. What is wrong with her survey?
- Identify which of these types of sampling is used: random, stratified, systematic, cluster, convenience.9) 49, 34, and 48 students are selected from the Sophomore, Junior, and Senior classes with 496, 348, and 481 students respectively.

Provide an appropriate response.

 In a survey, 26 voters were asked their ages. The results are shown below. Construct a histogram to represent the data.

 43
 56
 28
 63
 67
 66
 52
 48
 37
 51
 40
 60
 62

 66
 45
 21
 35
 49
 32
 53
 61
 53
 69
 31
 48
 59

Use the data to create a stemplot.

12) The midterm test scores for the seventh-period typing class are listed below.

85 77 93 91 74 65 68 97 88 59 74 83 85 72 63 79

¹⁰⁾ To avoid working late, a quality control analyst simply inspects the first 100 items produced in a day.

Find the mean for the given sample data. Unless indicated otherwise, round your answer to one more decimal place than is present in the original data values.

13) Listed below are the amounts of time (in months) that the employees of a restaurant have been working at the restaurant. Find the mean.						
1 5 7 8 12 16 18 25 57 90 99 126 136 167						
A) 59 months	B) 51.1 months	C) 54.8 months	D) 21.5 months			
Find the median for the given sample data. 14) The ages (in years) of the eight passengers on a bus are listed below. 10 7 26 16 21 43 40 30 Find the median age.						
A) 21 yr	B) 24.5 yr	C) 26 yr	D) 23.5 yr			
Find the mode(s) for the given sa 15) 20 42 46 42 49 42 A) 42	ample data. 49 B) 41.4	C) 46	D) 49	15)		
Find the midrange for the given 16) 3 6 9 0 4 1 11 5 A) 8	sample data. 9 14 3 8 2 15 0 9 B) 5.5	C) 15	D) 7.5	16)		
Find the mean of the data summ 17) The test scores of 40 stu score.	arized in the given freque udents are summarized in	ency distribution. the frequency distribution	below. Find the mean	17)		
ScoreStudents50-591360-69670-79780-89790-997A) 71.8	B) 64.6	C) 68.2	D) 74.5			
Find the variance for the given d 18) Jeanne is currently taki quizzes, Jeanne got the 17 18 1 20 13	lata. Round your answer t ng college zoology. The in following scores:	o one more decimal place structor often gives quizz	than the original data. es. On the past five	18)		
A) 97.4	B) 57.7	C) 57.6	D) 46.2			

Find the coefficient of variation for each of the two sets of data, then compare the variation. Round results to one decimal place.

19) Compare the variation in heights to the variation in weights of thirteen-year old girls. The heights (in inches) and weights (in pounds) of nine randomly selected thirteen-year old girls are listed below.

Heights (inches):	59.1	61.3	62.1	64.7	60.1	58.3	64.6	63.7	66.1
Weights (pounds):	87	94	91	119	96	90	123	98	139

Find the standard deviation of the data summarized in the given frequency distribution.

20) The test scores of 40 students are summarized in the frequency distribution below. Find the

standard de	viation.			
Score	Students			
50-59	5			
60-69	13			
70-79	5			
80-89	8			
90-99	9			
A) 13.3		B) 14.7	C) 12.6	D) 14

Construct a boxplot for the given data. Include values of the 5-number summary in all boxplots.

21) The test scores of 32 students are listed below. Construct a boxplot for the data set.

32 37 41 44 46 48 53 55 57 57 59 63 65 66 68 69 70 71 74 74 75 77 78 79 81 82 83 86 89 92 95 99

20)

Provide an appropriate response.

22) Describe any similarities or differences in the two distributions represented by the following boxplots. Assume the two boxplots have the same scale.



Answer Key Testname: REVIEW1

- 1) A
- 2) B
- 3) B
- 4) B
- 5) A
- 6) A
- 7) Sample: the 50,000 selected college students; population: all college students; representative
- 8) The sample is biased. College students are not representative of the U.S. population as a whole.
- 9) Stratified
- 10) Convenience
- 11) The approximate age at the center is 50.



22) Answers will vary.