## Statistics for People Who Think They Hate Statistics Using Microsoft Excel 2016 4th Edition Salkind Test Bank

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**Chapter 2: Computing and Understanding Averages: Means to an End Test Bank** 

## **MULTIPLE CHOICE**

1.	<ul><li>This is the value that best represents an entire group of score</li><li>a. Mean</li><li>b. Median</li><li>c. Mode</li><li>d. Average</li></ul>	25:
	ANS:DPTS:1DIF:EasyREF:Computing and Understanding AveragesOBJ:Understanding measures of central tendencyCOG:	Knowledge
2.	<ul> <li>Which of the following is NOT a measure of central tendent</li> <li>a. Median</li> <li>b. Mode</li> <li>c. Standard deviation</li> <li>d. Mean</li> </ul>	cy?
	ANS:CPTS:1DIF:EasyREF:Computing and Understanding AveragesOBJ:Understanding measures of central tendencyCOG:	Application
3.	<ul> <li>This measure of central tendency can be considered the most</li> <li>a. Mode</li> <li>b. Median</li> <li>c. Mean</li> <li>d. Average</li> </ul>	t precise:
	ANS:CPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: When To Use What Knowledge
4.	<ul> <li>This measure of central tendency can be considered the least</li> <li>a. Median</li> <li>b. Mode</li> <li>c. Mean</li> <li>d. Other</li> </ul>	t precise:
	ANS:BPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mode Knowledge
5.	<ul> <li>What should be used to determine central tendency?</li> <li>a. A correlation</li> <li>b. A graph</li> <li>c. The standard deviation</li> <li>d. The average</li> </ul>	
	ANS:DPTS:1DIF:EasyREF:Computing and Understanding AveragesOBJ:Understanding measures of central tendencyCOG:	Application

6. This consists of the middle point of a	set of values:
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- a. Mean
- b. Median
- c. Mode
- d. Other

ANS: B PTS: 1 DIF: Easy REF: Computing the Median OBJ: Understanding measures of central tendencyCOG: Knowledge 7. What is the most common average computed? a. Mode b. Mean c. Variance d. Median ANS: B PTS: 1 DIF: Easy REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Knowledge 8. What is the symbol used to represent the mean? a. N b. n c.  $\overline{\mathbf{x}}$ d. X ANS: C PTS: 1 DIF: Easy REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Knowledge 9. What is another term for the mean? a. Midpoint b. Frequency c. Arithmetic average d. Distribution ANS: C PTS: 1 DIF: Easy REF: And Now ... Using Excel's Average Function OBJ: Understanding measures of central tendencyCOG: Knowledge 10. What value is most often used to represent an entire group of scores? a. Mode b. N c. Median d. Mean ANS: D PTS: 1 DIF: Easy REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Knowledge 11. If a distribution is "significantly distorted," what is this called? Variability a. b. Outliers c. Skew

d. Percentile

	ANS: C PTS: 1 D OBJ: Understanding measures of central ter	DIF: Easy ndencyCOG:	REF: Computing the Median Comprehension
12.	<ul><li>What is another way of describing "meas</li><li>a. Statistical measures</li><li>b. Measures of variability</li><li>c. Averages</li><li>d. Deviation scores</li></ul>	sures of central tend	ency"?
	ANS:CPTS:11REF:Computing and Understanding AveraOBJ:Understanding measures of central term	-	Knowledge
13.	What is the formula for computing the matrix a. $\Sigma X + n$ b. $\Sigma Y / X$ c. $\Sigma X / n$ d. $\Sigma N + y$	ean?	
	ANS: C PTS: 1 D OBJ: Understanding measures of central ter	DIF: Medium ndencyCOG:	REF: Computing the Mean Knowledge
14.	REF: Computing a Weighted Mean	the total number of DIF: Medium	
15.	<ul> <li>COG: Knowledge</li> <li>Which of the following symbols representational as a symbol of the following symbols representation as a symbol of the following symbols representation as a symbol of the following symbol of the following symbols representation as a symbol of the following symbol of the following symbols representation as a symbol of the following symbol of the following symbols representation as a symbol of the following symbol of the following symbols representation as a symbol of the following symbol of the f</li></ul>	nts the individual sc	ore?
	ANS: A PTS: 1 D OBJ: Understanding measures of central ter	DIF: Easy ndencyCOG:	REF: Computing the Mean Knowledge
16.	<ul> <li>What does the Σ symbol represent?</li> <li>a. The mean</li> <li>b. The sum of values</li> <li>c. The sample size</li> <li>d. An individual score</li> </ul>		
	ANS:BPTS:11OBJ:Understanding measures of central ter	DIF: Easy ndencyCOG:	REF: Computing the Mean Knowledge
17.	What is the name of the letter $\Sigma$ ?		

17. What is the name of the letter  $\Sigma$ ?

	<ul> <li>a. Phi</li> <li>b. Rho</li> <li>c. Sigma</li> <li>d. Alpha</li> </ul>	
	ANS:CPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
18.	<ul> <li>Which of the following symbols represents sample size?</li> <li>a. X</li> <li>b. y</li> <li>c. n</li> <li>d. M</li> </ul>	
	ANS:CPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
19.	<ul> <li>What does the symbol M represent?</li> <li>a. Population size</li> <li>b. Sample Size</li> <li>c. Mean</li> <li>d. Individual score</li> </ul>	
	ANS:CPTS:1DIF:EasyREF:And Now Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
20.	If you know M = 5, and the sum of scores is 20, what is n? a. 4 b25 c. 100 d. Need more information	
	ANS:APTS:1DIF:MediumOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mean Application
21.	<ul> <li>If ∑X = 4,390 and n = 4, what is M?</li> <li>a. 17,560</li> <li>b0100</li> <li>c. 1097.5</li> <li>d. Need more information</li> </ul>	
	ANS:CPTS:1DIF:MediumOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mean Application
22.	<ul> <li>What is the mean value for the following scores: 10, 35, 40,</li> <li>a. 45</li> <li>b. 44.17</li> <li>c. 40</li> <li>d. 39.29</li> </ul>	60, 55, 25, 50?
	ANS: D PTS: 1 DIF: Medium	REF: Computing the Mean

ANS:DPTS:1DIF:MediumREF:Computing the MeanOBJ:Understanding measures of central tendencyCOG:Application

23. What is the mean value of the following scores: 12, 25, 15, 27, 32, 8? a. 19.83 b. 21.24 c. 20.00 d. 19.98 ANS: A PTS: 1 REF: Computing the Mean DIF: Medium OBJ: Understanding measures of central tendencyCOG: Application 24. What is the mean value of the following scores: 1.11, 1.17, 1.15, 2.02, 2.07, 3.11, 2.14? a. 2.14 b. 2.07 c. 1.74 d. 1.82 ANS: D PTS: 1 DIF: Medium REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Application 25. What is the mean value of the following scores: 117, 132, 147, 156, 196? a. 151.2 b. 149.6 c. 147.0 d. 148.7 ANS: B PTS: 1 DIF: Medium REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Application 26. Your current exam mean is 97.2. If you receive a 99 on the next exam, this will have the effect of a. Increasing your mean b. Decreasing your mean c. Having no effect on your mean **d.** Cannot be determined ANS: A PTS: 1 DIF: Hard REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Analysis 27. Your current exam mean is 93.2. If you receive an 87 on the next exam, this will have the effect of a. Increasing your mean b. Decreasing your mean c. Having no effect on your mean d. Cannot determine ANS: B PTS: 1 DIF: Hard REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Analysis 28. Your current exam mean is 95. If you receive a 95 on the next exam, this will have the effect of

a. Increasing your mean

b. Decreasing your mean

	<ul><li>c. Having no effect on your mean</li><li>d. Cannot be determined</li></ul>	
	ANS:CPTS:1DIF:HardOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mean Analysis
29.	<ul> <li>Which measure of central tendency is most influenced by or</li> <li>a. Median</li> <li>b. Mode</li> <li>c. Mean</li> <li>d. Variance</li> </ul>	utliers?
	ANS:CPTS:1DIF:EasyREF:And Now Using Excel's Median FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
30.	<ul> <li>What does the large N represent?</li> <li>a. Sample size</li> <li>b. Population size</li> <li>c. Sum of scores</li> <li>d. Mean score</li> </ul>	
	ANS:BPTS:1DIF:EasyREF:And Now Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
31.	<ul><li>What does the small n represent?</li><li>a. Sample size</li><li>b. Population size</li><li>c. Sum of scores</li><li>d. Mean score</li></ul>	
	ANS:APTS:1DIF:EasyREF:And Now Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
32.	<ul><li>Which measure of central tendency is also known as the mi</li><li>a. Mode</li><li>b. Mean</li><li>c. Median</li><li>d. Sum</li></ul>	dpoint for a set of scores?
	ANS:CPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Median Knowledge
33.	<ul><li>For which of the following is the sum of the deviations from</li><li>a. Harmonic mean</li><li>b. Arithmetic mean</li><li>c. Standard deviation</li><li>d. Variance</li></ul>	n the mean always equal to zero?
	ANS: B PTS: 1 DIF: Hard REF: And Now Using Excel's Average Eulection	

REF: And Now . . . Using Excel's Average Function

	OBJ: Understanding measures of central tendencyCOG:	Knowledge
34.	<ul> <li>What are Greek letters used to represent?</li> <li>a. Population parameters</li> <li>b. Sample data</li> <li>c. Sample statistics</li> <li>d. Outliers</li> </ul>	
	ANS:APTS:1DIF:EasyREF:And Now Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
35.	<ul> <li>The letter μ would be used to represent (a)</li> <li>a. Population parameter</li> <li>b. Sample statistic</li> <li>c. Inferential data</li> <li>d. Outliers</li> </ul>	
	ANS:APTS:1DIF:MediumREF:And Now Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:	Comprehension
36.	<ul> <li>What are Roman letters used to represent?</li> <li>a. Population parameters</li> <li>b. Sample statistics</li> <li>c. Sample data</li> <li>d. Outliers</li> </ul>	
	ANS:BPTS:1DIF:MediumREF:Computing a Weighted MeanOBJ:UnderstandingCOG:Knowledge	g measures of central tendency
37.	<ul> <li>The letter X with a bar over it is used to represent (a)</li> <li>a. Outliers</li> <li>b. Sample statistic</li> <li>c. Population parameter</li> <li>d. Inferential statistics</li> </ul>	
	ANS: BPTS: 1DIF: MediumREF: Computing a Weighted MeanOBJ: UnderstandingCOG: Knowledge	g measures of central tendency
38.	<ul><li>Which of the following defines the <i>median</i>?</li><li>a. Sum of all values in a group</li><li>b. Most frequently occurring value</li><li>c. Average variability in a set of scores</li><li>d. Midpoint in a set of scores</li></ul>	
	ANS:DPTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Median Knowledge
39.	What is the median for the following amounts: \$11.75, \$12.7 \$10.50, \$10.75?	75, \$13.00, \$10.75, \$11.50,

a. \$11.50 b. \$11.75 c. \$11.57 d. \$11.00 ANS: A PTS: 1 REF: Computing the Median DIF: Medium OBJ: Understanding measures of central tendencyCOG: Application 40. What is the median for the following amounts: \$13,400; \$17,560; \$45,440; \$68,550; \$96,400? \$13.400 a. b. \$48,240 c. \$45,440 d. \$96,400 ANS: C PTS: 1 DIF: Medium **REF:** Computing the Median OBJ: Understanding measures of central tendencyCOG: Application 41. What is the median of the following set of scores: 23, 17, 15, 32, 38, 47? a. 23 b. 32 c. 17.4 d. 27.5 ANS: D PTS: 1 DIF: Medium REF: Computing the Median OBJ: Understanding measures of central tendencyCOG: Application 42. What is the median of the following set of scores: 1.3, 4.7, 2.3, 3.3, 3.0, 2.9? a. 2.95 b. 3.05 c. 2.90 d. 3.00 ANS: A PTS: 1 DIF: Medium REF: Computing the Median OBJ: Understanding measures of central tendencyCOG: Application 43. When there is an even number of scores, how is the median calculated? a. Average the two middle scores. b. Use the smaller of the two middle scores. c. Use the larger of the two middle scores. d. The median cannot be calculated. ANS: A PTS: 1 DIF: Easy REF: Computing the Median OBJ: Understanding measures of central tendencyCOG: Comprehension 44. With regard to percentile points, what is the median also known as? a. Q1 b. Q2 c. Q3 d. Q4 ANS: B DIF: Easy PTS: 1 REF: And Now . . . Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG: Knowledge

45. What is the 25th percentile also known as? Q1 a. b. Q2 c. O3 d. Q4 ANS: A PTS: 1 DIF: Easy REF: And Now . . . Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG: Knowledge 46. What is the 75th percentile also known as? a. Q1 b. Q2 c. Q3 d. Q4 ANS: C PTS: 1 DIF: Easy REF: And Now ... Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG: Knowledge 47. Market researchers sent out a survey to college students in Ohio to assess their preferences in regard to three different brands of honey. When examining the average preference of the respondents, which measure of central tendency is most likely to be used to describe them? a. Median b. Mean c. Mode **d.** Cannot be determined ANS: C PTS: 1 DIF: Medium REF: When To Use What OBJ: Selecting a measure of central tendency COG: Application 48. What impact do extreme scores have on the median? a. Positive skew b. Negative skew c. Minimal impact d. Nullify the value ANS: C PTS: 1 DIF: Medium REF: And Now . . . Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG: Comprehension 49. Which of the following are used to define the percentage of cases equal to and below a certain point in a distribution of scores? a. T scores b. O points c. Standard scores d. Percentile points ANS: D PTS: 1 DIF: Easy REF: And Now ... Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG: Knowledge

50.	<ul> <li>A test score in the 97th percentile would be considered</li> <li>a. Very high</li> <li>b. Very low</li> <li>c. About average</li> <li>d. Cannot be determined</li> </ul>
	ANS: APTS: 1DIF: MediumREF: And Now Using Excel's Median FunctionOBJ: Understanding measures of central tendencyCOG:Comprehension
51.	<ul> <li>A test score in the third percentile would be considered</li> <li>a. Very high</li> <li>b. Very low</li> <li>c. About average</li> <li>d. Cannot be determined</li> </ul>
	ANS:BPTS:1DIF:MediumREF:And Now Using Excel's Median FunctionOBJ:Understanding measures of central tendencyCOG:Comprehension
52.	<ul> <li>A test score in the 47th percentile would be considered</li> <li>a. Very high</li> <li>b. Very low</li> <li>c. About average</li> <li>d. Cannot be determined</li> </ul>
	ANS: CPTS: 1DIF: MediumREF: And Now Using Excel's Median FunctionOBJ: Understanding measures of central tendencyCOG:Comprehension
53.	If you were to calculate the average of individual income, and you found many extreme scores, which measure of central tendency should be used? a. Mean b. Median c. Mode d. Standard error
	ANS:BPTS:1DIF:MediumREF:And NowUsing Excel's Median FunctionOBJ:Selecting a measure of central tendencyCOG:Application
54.	If you were to calculate the average of individual income, and you found no outliers, which measure of central tendency should you use? a. Mode b. Median c. Mean d. Other
	ANS: CPTS: 1DIF: MediumREF: And NowUsing Excel's Median FunctionOBJ: Selecting a measure of central tendencyCOG: Application

55. What does the term *skew* mean?

	<ul> <li>a. Significantly distort</li> <li>b. Divide</li> <li>c. Add</li> <li>d. Equalize</li> </ul>	
	ANS:APTS:1DIF:EasyREF:And Now Using Excel's Median FunctionOBJ:Understanding measures of central tendencyCOG:	Knowledge
56.	<ul> <li>Which of the following sets of data illustrates skew?</li> <li>a. 2, 3, 5, 7, 9</li> <li>b. 450, 472, 523, 547, 601</li> <li>c. 23, 37, 42, 51, 147</li> <li>d. 12, 14, 15, 17, 19</li> </ul>	
	ANS:CPTS:1DIF:MediumREF:And Now Using Excel's Median FunctionOBJ:Understanding measures of central tendencyCOG:	Application
57.	<ul> <li>What would be your preferred measure of central tendency if \$32,400; \$42,500; \$47,250; \$49,570; \$145,850?</li> <li>a. Mean</li> <li>b. Median</li> <li>c. Mode</li> <li>d. Weighted mean</li> </ul>	if you had the following data:
	ANS:BPTS:1DIF:MediumREF:And Now Using Excel's Median FunctionOBJ:Selecting a measure of central tendency	COG: Analysis
58.	<ul> <li>What would be your preferred measure of central tendency if \$31,550; \$33,750; \$34,700; \$37,550; \$39,275?</li> <li>a. Mean</li> <li>b. Mode</li> <li>c. Median</li> <li>d. Average</li> </ul>	if you had the following data:
	ANS:APTS:1DIF:MediumREF:And Now Using Excel's Median FunctionOBJ:Selecting a measure of central tendency	COG: Analysis
59.	<ul> <li>What would be your preferred measure of central tendency if Americans, 57 Mexicans, and 14 Canadians?</li> <li>a. Mean</li> <li>b. Weighted mean</li> <li>c. Median</li> <li>d. Mode</li> </ul>	if you had the following data: 23
	ANS:DPTS:1DIF:MediumOBJ:Selecting a measure of central tendency	REF: Computing the Mode COG: Analysis

60. What would be your preferred measure of central tendency if you had the following data: 57 males and 23 females?

	<ul> <li>a. Median</li> <li>b. Weighted mean</li> <li>c. Mean</li> <li>d. Mode</li> </ul>
	ANS: DPTS: 1DIF: MediumREF: Computing the ModeOBJ: Understanding measures of central tendencyCOG:Analysis
61.	<ul> <li>Which of the following best describes the mode?</li> <li>a. Sum of all values in a group</li> <li>b. Midpoint in a set of scores</li> <li>c. Number of subject collected</li> <li>d. Most frequently occurring value(s)</li> </ul>
	ANS:DPTS:1DIF:EasyREF:Computing the ModeOBJ:Understanding measures of central tendencyCOG:Knowledge
62.	<ul> <li>The mode will always consist of the following:</li> <li>a. The number of cases in the category</li> <li>b. The name of the category</li> <li>c. The format of the category</li> <li>d. The size of the category</li> </ul>
	ANS:BPTS:1DIF:EasyREF:Computing the ModeOBJ:Understanding measures of central tendencyCOG:Knowledge
63.	<ul> <li>What is the mode of the following data: 47 Republicans, 49 Democrats, and 52 independents?</li> <li>a. 52</li> <li>b. Republicans</li> <li>c. Democrats</li> <li>d. Independents</li> </ul>
	ANS:DPTS:1DIF:MediumREF:Computing the ModeOBJ:Understanding measures of central tendencyCOG:Application
64.	<ul> <li>What is the mode of the following data: 57 males and 43 females?</li> <li>a. 57</li> <li>b. Males</li> <li>c. Females</li> <li>d. Cannot be determined</li> </ul>
	ANS:BPTS:1DIF:MediumREF:Computing the ModeOBJ:Understanding measures of central tendencyCOG:Application
65.	<ul> <li>What is the mode of the following data: 52 bowls of spaghetti, 37 bowls of cereal, 14 sandwiches, and 17 personal pizzas?</li> <li>a. Bowls of cereal</li> <li>b. Sandwiches</li> <li>c. 52</li> <li>d. Bowls of spaghetti</li> </ul>
	ANS:DPTS:1DIF:MediumREF:Computing the ModeOBJ:Understanding measures of central tendencyCOG:Application

66.	<ul> <li>Which of the following represents a bimodal distribution?</li> <li>a. 23 males and 14 females</li> <li>b. 43 New Yorkers, 14 Kentuckians, and 7 Wyomingites</li> <li>c. 23 professors and 22 researchers</li> <li>d. 14 individuals with blonde hair and 8 individuals with brown hair</li> <li>ANS: C PTS: 1 DIF: Hard</li> <li>REF: And Now Using Excel's Mode.SNGL Function</li> </ul>				
67.	<ul> <li>OBJ: Understanding measures of central tendencyCOG:</li> <li>When describing a set of nominal data, a researcher should a measures of central tendency?</li> <li>a. Mode</li> <li>b. Median</li> <li>c. Standard deviation</li> <li>d. Mean</li> </ul>	Application use which of the following			
	ANS:APTS:1DIF:MediumOBJ:Selecting a measure of central tendency	REF: Computing the Mode COG: Analysis			
68.	<ul><li>This is another word for a single observation:</li><li>a. A data point</li><li>b. Data</li><li>c. A sample</li><li>d. A population</li></ul>				
	ANS:APTS:1DIF:EasyREF:Sigma Freud and Descriptive StatisticsOBJ:Understanding measures of central tendencyCOG:	Knowledge			
69.	<ul> <li>Which of the following measures of central tendency is the ligroup of scores?</li> <li>a. Mode</li> <li>b. Median</li> <li>c. Mean</li> <li>d. Average</li> </ul>	<u> </u>			
	ANS:APTS:1DIF:EasyOBJ:Understanding measures of central tendencyCOG:	REF: Computing the Mode Knowledge			
TRUE/FALSE					

1. While there are three measures of central tendency, the mean, median, and mode are all interchangeable anyway.

ANS:	F PTS:	1	DIF:	Easy	
REF:	Computing and Unc	lerstanding Aver	ages		
OBJ:	Understanding measured	sures of central t	endenc	yCOG:	Comprehension

2. A researcher should use the mode as a measure of central tendency when the data are qualitative in nature.

ANS:	Т	PTS:	1	DIF:	Easy	REF:	When To Use What
OBJ:	Selecting a m	easure o	of central tende	ncy		COG:	Comprehension

## SHORT ANSWER

1. Why is the mean the most frequently used measure of central tendency?

ANS:

When the distribution of scores is free of outliers (i.e., extreme scores), the mean tends to be the most precise measure of central tendency.

PTS:1DIF:MediumREF:And Now . . . Using Excel's Median FunctionOBJ:Selecting a measure of central tendencyCOG:Comprehension

2. What is the formula for calculating the mean? What does each of the symbols represent?

ANS:

 $\Sigma X / n$ , where  $\Sigma$  represents summation, X represents individual scores, and n represents the sample size.

PTS:1DIF:MediumREF:Computing the MeanOBJ:Understanding measures of central tendencyCOG:Knowledge

- 3. What is meant by the term outlier?
  - ANS:

An outlier refers to any extreme scores in a data set.

PTS:1DIF:MediumREF:And Now . . . Using Excel's Average FunctionOBJ:Understanding measures of central tendencyCOG:Comprehension

4. When might the median be the more appropriate measure of central tendency over the mean?

ANS:

When there are extreme scores in a distribution, calculating the mean would result in skewed results. The median provides a more accurate measure of the average.

PTS:1DIF:HardREF:When To Use WhatOBJ:Selecting a measure of central tendencyCOG:Application

5. What does the term *bimodal* mean?

ANS:

Bimodal refers to a distribution of scores that has two different modes, or two scores that occur most frequently.

PTS:1DIF:MediumREF:Apple Pie a la BimodalOBJ:Understanding measures of central tendencyCOG:Comprehension

6. When is the mode the best measure of central tendency to use?

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ANS:

The mode should be used when working with categorical or nominal data (ex. gender).

PTS:1DIF:MediumREF:When To Use WhatOBJ:Selecting a measure of central tendencyCOG:Application

7. How would you calculate a weighted mean?

ANS:

First, list all values in the sample. Second, list the frequency associated with each value. Third, multiply the value by its frequency. Fourth, sum all "Value x Frequency." Fifth and finally, divide by total frequency or n.

PTS:1DIF:HardREF:Computing a Weighted MeanOBJ:Understanding measures of central tendencyCOG:Comprehension