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

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

## **MULTIPLE CHOICE**

1.	This is the value that best represents an entire group of score a. Mean b. Median c. Mode d. Average	es:
	ANS: D PTS: 1 DIF: Easy REF: Computing and Understanding Averages OBJ: Understanding measures of central tendencyCOG:	Knowledge
2.	<ul> <li>Which of the following is NOT a measure of central tendence</li> <li>a. Median</li> <li>b. Mode</li> <li>c. Standard deviation</li> <li>d. Mean</li> </ul>	cy?
	ANS: C PTS: 1 DIF: Easy REF: Computing and Understanding Averages OBJ: Understanding measures of central tendencyCOG:	Application
3.	This measure of central tendency can be considered the most a. Mode b. Median c. Mean d. Average	t precise:
	ANS: C PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: When To Use What Knowledge
4.	This measure of central tendency can be considered the least a. Median b. Mode c. Mean d. Other	t precise:
	ANS: B PTS: 1 DIF: Easy OBJ: 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: D PTS: 1 DIF: Easy REF: Computing and Understanding Averages OBJ: Understanding measures of central tendencyCOG:	Application

6.	This consists of the middle point of a set of values: <ul><li>a. Mean</li><li>b. Median</li><li>c. Mode</li><li>d. Other</li></ul>	
	ANS: B PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Knowledge
7.	What is the most common average computed?  a. Mode  b. Mean  c. Variance  d. Median	
	ANS: B PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
8.	What is the symbol used to represent the mean?  a. $N$ b. $n$ c. $\overline{x}$ d. $X$	
	ANS: C PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
9.	<ul><li>What is another term for the mean?</li><li>a. Midpoint</li><li>b. Frequency</li><li>c. Arithmetic average</li><li>d. Distribution</li></ul>	
	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 a. Mode b. N c. Median d. Mean	of scores?
	ANS: D PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
11.	If a distribution is "significantly distorted," what is this calle a. Variability b. Outliers c. Skew d. Percentile	ed?

	ANS: C PTS: 1 DIF: East OBJ: Understanding measures of central tendencyCO	1 0
12.	What is another way of describing "measures of ce a. Statistical measures b. Measures of variability c. Averages d. Deviation scores	entral tendency"?
	ANS: C PTS: 1 DIF: East REF: Computing and Understanding Averages OBJ: Understanding measures of central tendencyCO	
13.	What is the formula for computing the mean? a. $\Sigma X + n$ b. $\Sigma Y / X$ c. $\Sigma X / n$ d. $\Sigma N + y$	
	ANS: C PTS: 1 DIF: Me OBJ: Understanding measures of central tendencyCO	dium REF: Computing the Mean G: Knowledge
14.	This is calculated by multiplying values by the free of all the products, and then dividing by the total na. Mean b. Arithmetic mean c. Mode d. Weighted mean	<u>.                                     </u>
	ANS: D PTS: 1 DIF: Me REF: Computing a Weighted Mean OBJ: Und COG: Knowledge	dium derstanding measures of central tendency
15.	Which of the following symbols represents the index a. $X$ b. $n$ c. $N$ d. $\Sigma$	ividual score?
	ANS: A PTS: 1 DIF: East OBJ: Understanding measures of central tendencyCO	•
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: B PTS: 1 DIF: East OBJ: Understanding measures of central tendencyCO	
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: C PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
18.	Which of the following symbols represents sample size?  a. X  b. y  c. n  d. M	
	ANS: C PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Knowledge
19.	What does the symbol M represent?  a. Population size  b. Sample Size  c. Mean  d. Individual score	
	ANS: C PTS: 1 DIF: Easy REF: And Now Using Excel's Average Function OBJ: 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: A PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Application
21.	If $\sum X = 4,390$ and $n = 4$ , what is M? a. 17,560 b0100 c. 1097.5 d. Need more information	
	ANS: C PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Application
22.	What is the mean value for the following scores: 10, 35, 40, a. 45 b. 44.17 c. 40 d. 39.29	60, 55, 25, 50?
	ANS: D PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean 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 DIF: Medium REF: Computing the Mean 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: C PTS: 1 DIF: Hard OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mean Analysis
29.	Which measure of central tendency is most influenced by a. Median b. Mode c. Mean d. Variance	outliers?
	ANS: C PTS: 1 DIF: Easy REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Knowledge
30.	What does the large N represent?  a. Sample size  b. Population size  c. Sum of scores  d. Mean score	
	ANS: B PTS: 1 DIF: Easy REF: And Now Using Excel's Average Function OBJ: 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: A PTS: 1 DIF: Easy REF: And Now Using Excel's Average Function OBJ: Understanding measures of central tendencyCOG:	Knowledge
32.	Which measure of central tendency is also known as the ra. Mode b. Mean c. Median d. Sum	midpoint for a set of scores?
	ANS: C PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Knowledge
33.	For which of the following is the sum of the deviations from a. Harmonic mean b. Arithmetic mean c. Standard deviation d. Variance	om the mean always equal to zero?
	ANS: B PTS: 1 DIF: Hard 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: A PTS: 1 DIF: Easy REF: And Now Using Excel's Average Function OBJ: Understanding measures of central tendencyCOG:	Knowledge
35.	The letter $\mu$ would be used to represent (a)  a. Population parameter  b. Sample statistic  c. Inferential data  d. Outliers	
	ANS: A PTS: 1 DIF: Medium REF: And Now Using Excel's Average Function OBJ: 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: B PTS: 1 DIF: Medium REF: Computing a Weighted Mean OBJ: Understanding COG: Knowledge	g measures of central tendency
37.	The letter X with a bar over it is used to represent (a)a. Outliers b. Sample statistic c. Population parameter d. Inferential statistics	
	ANS: B PTS: 1 DIF: Medium REF: Computing a Weighted Mean OBJ: Understanding COG: 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: D PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Knowledge
39	What is the median for the following amounts: \$11.75, \$12.5	75. \$13.00. \$10.75. \$11.50

\$10.50, \$10.75?

	a. \$11.50 b. \$11.75 c. \$11.57 d. \$11.00	
	ANS: A PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Application
40.	What is the median for the following amounts: \$13,400; \$1 a. \$13,400 b. \$48,240 c. \$45,440 d. \$96,400	7,560; \$45,440; \$68,550; \$96,400?
	ANS: C PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Application
41.	What is the median of the following set of scores: 23, 17, 1 a. 23 b. 32 c. 17.4 d. 27.5	5, 32, 38, 47?
	ANS: D PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Application
42.	What is the median of the following set of scores: 1.3, 4.7, a. 2.95 b. 3.05 c. 2.90 d. 3.00	2.3, 3.3, 3.0, 2.9?
	ANS: A PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Application
43.	<ul> <li>When there is an even number of scores, how is the median</li> <li>a. Average the two middle scores.</li> <li>b. Use the smaller of the two middle scores.</li> <li>c. Use the larger of the two middle scores.</li> <li>d. The median cannot be calculated.</li> </ul>	calculated?
	ANS: A PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Median Comprehension
44.	a. Q1 b. Q2 c. Q3 d. Q4	nown as?
	ANS: B PTS: 1 DIF: Easy REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Knowledge

45.	<ul><li>What is the 25th percentile also known as?</li><li>a. Q1</li><li>b. Q2</li><li>c. Q3</li><li>d. Q4</li></ul>	
	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 C regard to three different brands of honey. When examining to respondents, which measure of central tendency is most like a. Median  b. Mean  c. Mode  d. Cannot be determined	the average preference of the
	ANS: C PTS: 1 DIF: Medium OBJ: Selecting a measure of central tendency	REF: When To Use What 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 point in a distribution of scores?  a. T scores  b. Q points  c. Standard scores  d. Percentile points	cases equal to and below a certain
	ANS: D PTS: 1 DIF: Easy REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Knowledge

50.	A test score in the 97th percentile would be considered a. Very high b. Very low c. About average d. Cannot be determined	
	ANS: A PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Comprehension
51.	A test score in the third percentile would be considered a. Very high b. Very low c. About average d. Cannot be determined	
	ANS: B PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Comprehension
52.	A test score in the 47th percentile would be considered a. Very high b. Very low c. About average d. Cannot be determined	
	ANS: C PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Understanding measures of central tendencyCOG:	Comprehension
53.	If you were to calculate the average of individual income, scores, which measure of central tendency should be used?  a. Mean  b. Median  c. Mode  d. Standard error	· · · · · · · · · · · · · · · · · · ·
	ANS: B PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Selecting a measure of central tendency	COG: Application
54.	If you were to calculate the average of individual income, measure of central tendency should you use?  a. Mode  b. Median  c. Mean  d. Other	and you found no outliers, which
	ANS: C PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Selecting a measure of central tendency	COG: Application
55.	What does the term <i>skew</i> mean?	

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

	<ul><li>a. Median</li><li>b. Weighted mean</li><li>c. Mean</li><li>d. Mode</li></ul>	
	ANS: D PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode 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: D PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode Knowledge
62.	The mode will always consist of the following:  a. The number of cases in the category  b. The name of the category  c. The format of the category  d. The size of the category	
	ANS: B PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode Knowledge
63.	What is the mode of the following data: 47 Republicans, 49 a. 52 b. Republicans c. Democrats d. Independents	Democrats, and 52 independents?
	ANS: D PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode Application
64.	What is the mode of the following data: 57 males and 43 fe a. 57 b. Males c. Females d. Cannot be determined	males?
	ANS: B PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode Application
65.	What is the mode of the following data: 52 bowls of spagners sandwiches, and 17 personal pizzas?  a. Bowls of cereal  b. Sandwiches  c. 52  d. Bowls of spaghetti	etti, 37 bowls of cereal, 14
	ANS: D PTS: 1 DIF: Medium OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode 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 bronders.</li> </ul>	rown hair
	ANS: C PTS: 1 DIF: Hard REF: And Now Using Excel's Mode.SNGL Function OBJ: Understanding measures of central tendencyCOG:	Application
67.	When describing a set of nominal data, a researcher should to measures of central tendency?  a. Mode  b. Median  c. Standard deviation  d. Mean	use which of the following
	ANS: A PTS: 1 DIF: Medium OBJ: Selecting a measure of central tendency	REF: Computing the Mode COG: Analysis
68.	This is another word for a single observation: <ul><li>a. A data point</li><li>b. Data</li><li>c. A sample</li><li>d. A population</li></ul>	
	ANS: A PTS: 1 DIF: Easy REF: Sigma Freud and Descriptive Statistics OBJ: Understanding measures of central tendencyCOG:	Knowledge
69.	Which of the following measures of central tendency is the lagroup of scores?  a. Mode  b. Median  c. Mean  d. Average	least precise representation of a
	ANS: A PTS: 1 DIF: Easy OBJ: Understanding measures of central tendencyCOG:	REF: Computing the Mode Knowledge
TRUI	E/FALSE	
1.	While there are three measures of central tendency, the measures interchangeable anyway.	n, median, and mode are all
	ANS: F PTS: 1 DIF: Easy REF: Computing and Understanding Averages OBJ: Understanding measures of central tendencyCOG:	Comprehension
2.	A researcher should use the mode as a measure of central tenqualitative in nature.	ndency when the data are

	ANS: T PTS: 1 DIF: Easy REF: When To Use What OBJ: Selecting a measure of central tendency COG: Comprehension	
SHORT ANSWER		
1.	<ul> <li>Why is the mean the most frequently used measure of central tendency?</li> <li>ANS:</li> <li>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.</li> </ul>	
	PTS: 1 DIF: Medium REF: And Now Using Excel's Median Function OBJ: Selecting a measure of central tendency COG: Comprehension	
2.	2. What is the formula for calculating the mean? What does each of the symbols represent? ANS: $\Sigma X / n, \text{ where } \Sigma \text{ represents summation, } X \text{ represents individual scores, and } n \text{ represents the sample size.}$	
	PTS: 1 DIF: Medium REF: Computing the Mean OBJ: Understanding measures of central tendencyCOG: Knowledge	
3.	3. What is meant by the term outlier?	
	ANS: An outlier refers to any extreme scores in a data set.	
	PTS: 1 DIF: Medium REF: And Now Using Excel's Average Function OBJ: Understanding measures of central tendencyCOG: Comprehension	
4.	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: 1 DIF: Hard REF: When To Use What OBJ: Selecting a measure of central tendency COG: 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: 1 DIF: Medium REF: Apple Pie a la Bimodal OBJ: 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: 1 DIF: Medium REF: When To Use What

OBJ: Selecting a measure of central tendency COG: 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: 1 DIF: Hard REF: Computing a Weighted Mean OBJ: Understanding measures of central tendencyCOG: Comprehension