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Salkind, Statistics of the Sta

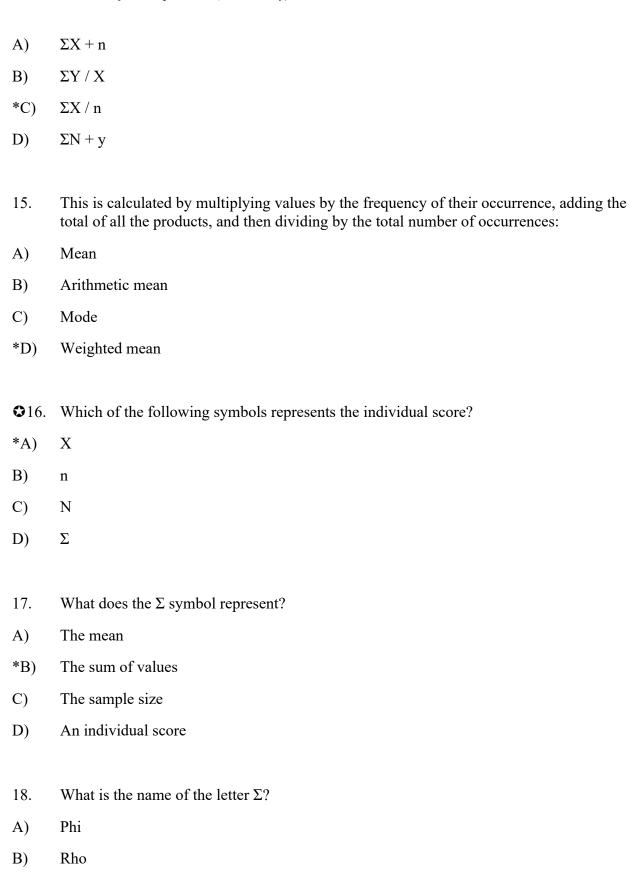
## Chapter 2: Means to an End: Computing and Understanding Averages

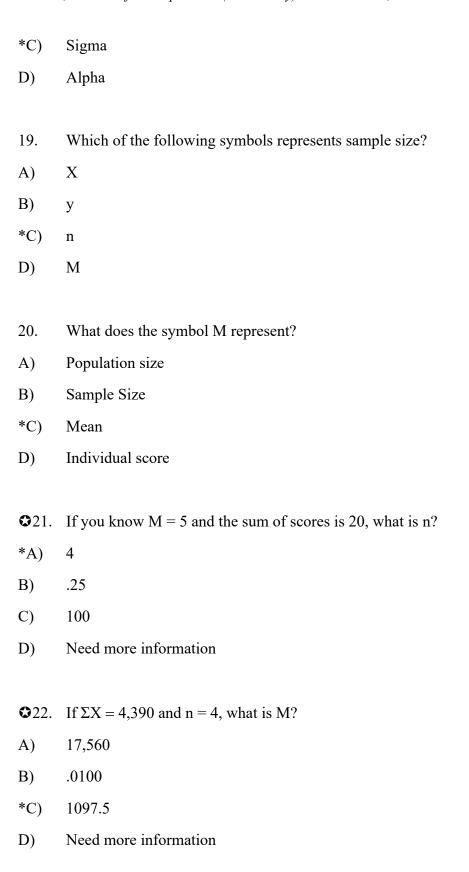
Спар	2. Means to an End. Comparing and Charlestanding Tiverages
♦ Note to instructor: Test items marked with this star symbol also appear in the chapter quiz on the book's open-access Student Study Site.	
1.	While there are three measures of central tendency, the mean, median, and mode are all interchangeable anyway.
A)	True
*B)	False
2.	This is the value that best represents an entire group of scores.
A)	Mean
B)	Median
C)	Mode
*D)	Average
3.	Which of the following is not a measure of central tendency?
A)	Median
B)	Mode
*C)	Standard deviation
D)	Mean
4.	This measure of central tendency can be considered the most precise:
A)	Mode
B)	Median
*C)	Mean
D)	None of the above

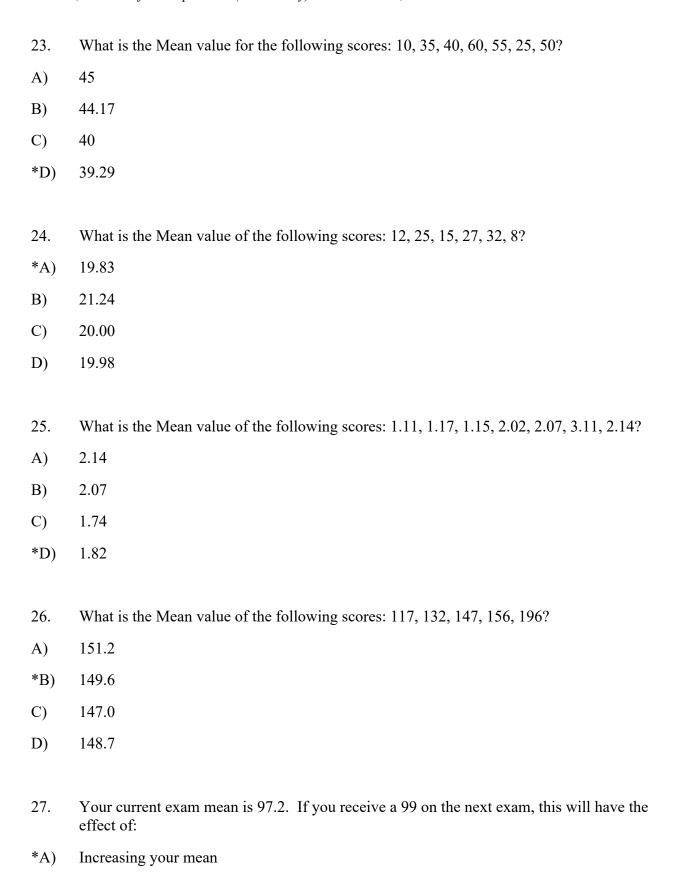
5. This measure of central tendency can be considered the least precise:

A)	Median
*B)	Mode
C)	Mean
D)	Other
<b>©</b> 6.	What should be used to determine central tendency?
A)	A correlation
B)	A graph
C)	The standard deviation
*D)	The average
7.	This consists of the middle point of a set of values:
A)	Mean
*B)	Median
C)	Mode
D)	Other
_	
<b>⊘</b> 8.	What is the most common average computed?
A)	Mode
*B)	Mean
C)	Variance
D)	Median
9.	What is the symbol used to represent the mean?
A)	N
B)	n
*C)	$ar{x}$

D)	X
<b>₽</b> 10.	What is another term for the mean?
A)	Midpoint
B)	Frequency
•	Arithmetic average
	Distribution
-,	
<b>©</b> 11.	What value is most often used to represent an entire group of scores?
A)	Mode
B)	N
C)	Median
*D)	Mean
<b>©</b> 12.	If a distribution is "significantly distorted" what is this called?
A)	Variability
B)	Outliers
*C)	Skew
D)	Percentile
13.	What is another way of describing "measures of central tendency"?
A)	Statistical measures
B)	Measures of variability
*C)	Averages
D)	Deviation scores
<b>\\ \</b> 1.4	What is the formula for computing the many?
<b>W</b> 14.	What is the formula for computing the mean?

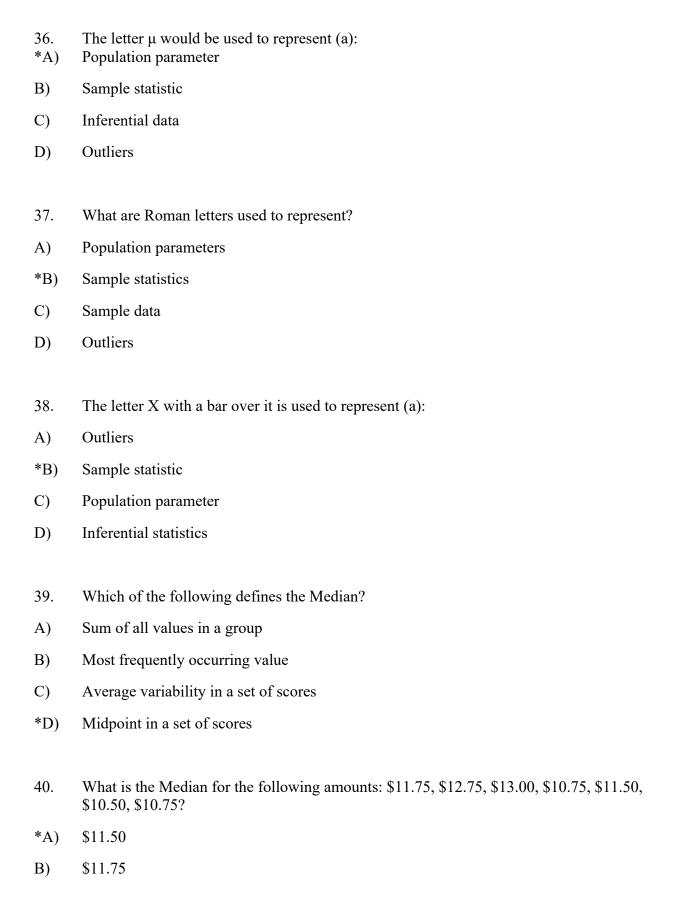


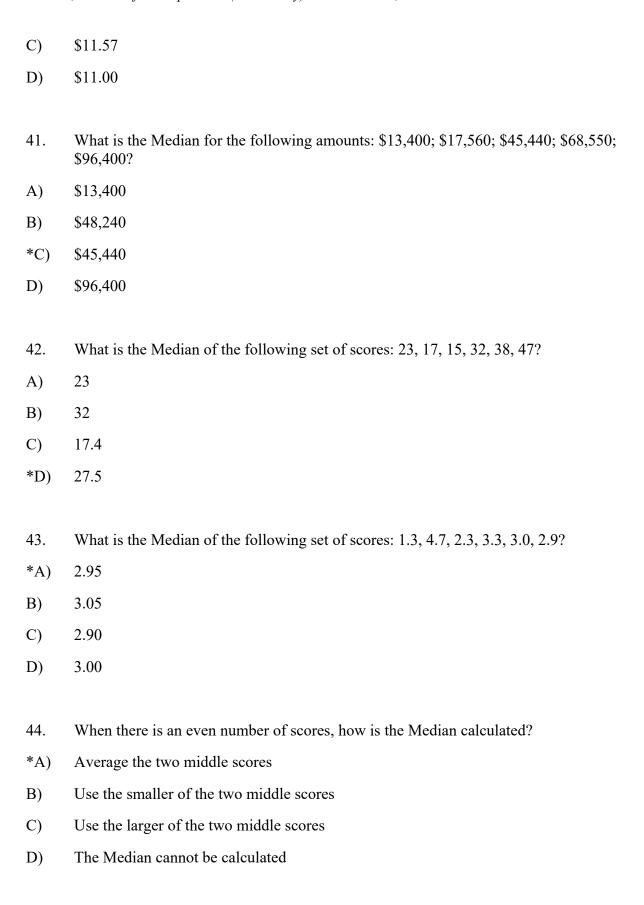




B)	Decreasing your mean
C)	Having no effect on your mean
D)	Cannot be determined
28.	Your current exam mean is 93.2. If you receive a 87 on the next exam, this will have the effect of:
A)	Increasing your mean
*B)	Decreasing your mean
C)	Having no effect on your mean
D)	Cannot determine
29.	Your current 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
*C)	Having no effect on your mean
D)	Cannot be determined
30.	Which measure of central tendency is most influenced by outliers?
A)	Median
B)	Mode
*C)	Mean
D)	Variance
31.	What does the large N represent?
A)	Sample size
*B)	Population size
C)	Sum of scores

D)	Mean score
32.	What does the small n represent?
*A)	Sample size
B)	Population size
C)	Sum of scores
D)	Mean score
33.	Which measure of central tendency is also known as the midpoint for a set of scores?
A)	Mode
B)	Mean
*C)	Median
D)	Sum
34.	For which of the following is the sum of the deviations from the mean always equal to zero?
A)	Harmonic mean
*B)	Arithmetic mean
C)	Standard deviation
D)	Variance
35.	What are Greek letters used to represent?
*A)	Population parameters
B)	Sample data
C)	Sample statistics
D)	Outliers





With regard to percentile points, what is the median also known as?
Q1
Q2
Q3
Q4
What is the 25th percentile also known as?
Q1
Q2
Q3
Q4
What is the 75th percentile also known as?
Q1
Q2
Q3
Q4
What symbols are used to represent the median?
M
X
Med or Mdn
$ar{x}$
What impact do extreme scores have on the median?
Positive skew

*C) Minimal impact D) Nullify the value  50. Which of the following are used to define the percentage of case equal to and below a certain point in a distribution of scores?  A) T scores B) Q points C) Standard scores  *D) Percentile points  51. A test score in the 97th percentile would be considered:  *A) Very high B) Very low C) About average D) Cannot be determined  52. A test score in the third percentile would be considered: A) Very high  *B) Very low C) About average D) Cannot be determined  53. A test score in the 47th percentile would be considered: A) Very high B) Very low C) About average D) Cannot be determined	B)	Negative skew
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<ul> <li>D) Cannot be determined</li> <li>53. A test score in the 47th percentile would be considered:</li> <li>A) Very high</li> <li>B) Very low</li> </ul>	*B)	Very low
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A) Very high B) Very low	D)	Cannot be determined
A) Very high B) Very low		
B) Very low	53.	A test score in the 47th percentile would be considered:
	A)	Very high
*C) About average	B)	Very low
	*C)	About average

D) Cannot be determine	ed
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- 54. 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
- 55. 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
- 56. What does the term "skew" mean?
- \*A) Significantly distort
- B) Divide
- C) Add
- D) Equalize
- 57. 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

58.	What would be your preferred measure of central tendency if you had the following data: \$32,400; \$42,500; \$47,250; \$49,570; \$145,850?
A)	Mean
*B)	Median
C)	Mode
D)	Weighted mean
59.	What would be your preferred measure of central tendency if you had the following data: \$31,550; \$33,750; \$34,700; \$37,550; \$39,275?
*A)	Mean
B)	Mode
C)	Median
D)	None of the above
60.	What would be your preferred measure of central tendency if you had the following data: 23 Americans, 57 Mexicans, and 14 Canadians?
A)	Mean
B)	Weighted mean
C)	Median
*D)	Mode
61.	What would be your preferred measure of central tendency if you had the following data: 57 males and 23 females?
A)	Median
B)	Weighted mean
C)	Mean
*D)	Mode
62.	Which of the following best describes the Mode?

Sum of all values in a group

A)

B)	Midpoint in a set of scores
C)	Number of subject collected
*D)	Most frequently occurring value(s)
63.	The mode will always consist of the following:
A)	The number of cases in the category
*B)	The name of the category
C)	Either A or B can be used
D)	None of the above
54.	What is the mode of the following data: 47 Republicans, 49 Democrats, and 52 independents?
<b>A</b> )	52
B)	Republicans
C)	Democrats
*D)	Independents
65.	What is the mode of the following data: 57 males and 43 females?
A)	57
*B)	Males
C)	Females
D)	Cannot be determined
56.	What is the mode of the following data: 52 bowls of spaghetti, 37 bowls of cereal, 14 sandwiches, and 17 personal pizzas?
A)	Bowls of cereal
B)	Sandwiches

C)	52
*D)	Bowls of spaghetti
67.	Which of the following represents a bimodal distribution?
A)	23 males and 14 females
B)	43 New Yorkers, 14 Kentuckians, and 7 Wyomingites
*C)	23 professors and 22 researchers
D)	14 individuals with blonde hair and 8 individuals with brown hair
68.	When describing a set of nominal data, a researcher should use which of the following measures of central tendency?
*A)	Mode
B)	Median
C)	Standard deviation
D)	Mean
69.	This is another word for a single observation:
*A)	A data point
B)	Data
C)	A sample
D)	A population
70.	Why is the Mean the most frequently used measure of central tendency?
*A)	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.

What is the formula for calculating the Mean? What does each of the symbols represent?

71.

- \*A)  $\Sigma X / n$  where  $\Sigma$  represents summation, X represents individual scores, and n represents the sample size.
- 72. What is meant by the term outlier?
- \*A) An outlier refers to any extreme scores in a data set.
- 73. When might the Median be the appropriate measure of central tendency over the Mean?
- \*A) 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.
- 74. What does the term bimodal mean?
- \*A) Bimodal refers to a distribution of scores that has two different modes, or two scores that occur most frequently.
- 75. When is the Mode the best measure of central tendency to use?
- \*A) The Mode should be used when working with categorical or nominal data. Example: gender
- 76. How would you calculate a weighted mean?
- \*A) 1. List all values in the sample
- 2. List the frequency associated with each value
- 3. Multiply the value by its frequency
- 4. Sum all "Value x Frequency"
- 5. Divide by total frequency or n
- 77. In journal articles and chapters, the median could be reported as Med or Mdn.
- \*A) True
- B) False

- 78. The example given in the "Real-World Stats" section of your text was about Internet use patterns of adults in several age groups, including middle-aged (ages 40-59), young-old (ages 60-74), and old-old (ages 75-92). When examining the average age 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