Statistical Techniques in Business and Economics 17th Edition Lind Test Bank

Exam	
Name	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
 A population is a collection of all individuals, objects, or measurements of Answer: True False 	f interest. 1)
2) Statistics are used as a basis for making decisions.	2)
Answer: True False	
3) A listing of 100 family annual incomes is an example of statistics.	3)
Answer: True V False	
4) The average number of passengers on commercial flights between Chicago York City is an example of a statistic.	o and New 4)
Answer: True False	
5) Statistics is used to report the summary results of market surveys.	5)
Answer: True False	
6) A sample is a portion or part of the population of interest.	6)
Answer: ^o True False	
7) To infer something about a population, we usually take a sample from the	population. 7)
Answer: ^o True False	
8) Descriptive statistics are used to find out something about a population ba sample.	sed on a 8)
Answer: True V False	
9) There are four levels of measurement: qualitative, quantitative, discrete, an	nd continuous. 9)
Answer: True V False	
10) The ordinal level of measurement is considered the "lowest" level of measurement	surement. 10)
Answer: True • False	
11) A store asks shoppers for their zip codes to identify market areas. Zip code example of ratio data.	es are an 11)
Answer: True • False	
12) An ordinal level of measurement implies some sort of ranking.	12)
Answer: True False	
13) Data measured on a nominal scale can only be classified into categories.	13)
Answer: True False	

14)	The terms descriptive statistics and inferential statistics can be used interchangeably.	14)
	Answer: True • False	
15)	A marketing research agency was hired to test a new DVD player. Consumers rated it	15)
	outstanding, very good, fair, or poor. The level of measurement for this experiment is ordinal.	
	Answer: True False	
16)	The Union of Electrical Workers of America with 9,128 members polled 362 members about a new wage package that will be submitted to management. The population is the 362 members.	16)
	Answer: True • False	
17)	 The CIA World Factbook cited these numbers for the United States: The birthrate is 13.66 births per 1,000 of the population. The average life expectancy for females is 81.17 years. Approximately 316.7 million persons reside in the United States. 	17)
	Each of these numbers is referred to as a statistic.	
	Answer: True False	
18)	If we select 100 persons from 25,000 registered voters and question them about	18)
	candidates and issues, the 100 persons are referred to as the population. Answer: True False	
19)	Statistics is defined as a body of techniques used to facilitate the collection, organization, presentation, analysis, and interpretation of information for the purpose of making better decisions.	19)
	Answer: True False	
20)	Categorizing voters as Democrats, Republicans, and Independents is an example of interval level measurement.	20)
	Answer: True • False	
21)	The order in which runners finish in a race would be an example of continuous data.	21)
	Answer: True Selfalse	
22)	Based on a sample of 3,000 people, the civilian unemployment rate in the United States was 5.5%. 5.5% is referred to as a statistic.	22)
	Answer: True False	
23)	The principal difference between the interval and ratio scale is that the ratio scale has a meaningful zero point.	23)
	Answer: True False	

24)	The branch of mathe	ematics used to facilitate	e the collection, orga	nization, presentation,	24) _	
	analysis, and interpr	etation of numerical inf	formation is referred	to as statistics.		
	Answer: Variable True	False				
٥٣)	The	: f:1 :			05)	
25)		·	rete variable.		25)	
	Answer: Virue	False				
TIPI	_E CHOICE. Choose th	ne one alternative that bes	st completes the statem	ent or answers the question	۱.	
26)	* *	*			26) _	
	,		ative manner.			
	•					
	, 0		ent the population			
	•	data adequatery repres	ent the population.			
	Allswei. A					
27)	Which of the follow	ing is an example of a c	continuous variable?		27)	
	,					
	,					
			g garage			
	, 1	oppers				
	Answer: C					
28)	The incomes of 50 le	oan applicants are obtai	ned. Which level of	measurement is income?	28)	
	A) Ratio	B) Nominal	c) Interval	D) Ordinal	_	
	Answer: A					
29)	When TV advertiser	nents report that "2 out	of 3 dentists surveye	d indicated they would	29)	
,		*	•	•	′ –	
	the conclusion becau	ise				
	A) the sample of d	entists is clearly explain	ned.			
	, -	•				
	•			ists surveyed.		
	•	is not illustrated with a	grapn.			
	Answer: C					
30)	A bank asks custome	ers to evaluate its drive-	through service as g	ood, average, or poor.	30)	
	Which level of meas	surement is this classific	cation?			
	A) Nominal	B) Interval	c) Ratio	D) Ordinal		
	Answer: D					
21\	A portion or part of	a population is called a			21\	
(ا ۵	•	a population is caned a	R) tally		ے (۱	
	•	ibution.	, •	ev.		
	Answer: A		,	•		
	25) TIPI 26) 27) 28)	analysis, and interpre Answer: True 25) The number of child Answer: True TIPLE CHOICE. Choose the Choice of All Summarize data Bly make inference Chylogather or collected Dhylogather or collecte	analysis, and interpretation of numerical informals. Answer: True False 25) The number of children in a family is a disconser. True False TIPLE CHOICE. Choose the one alternative that best A) summarize data in a useful and inform B) make inferences about a population. C) gather or collect data. D) determine if the data adequately repress Answer: A 27) Which of the following is an example of a company of the properties. Answer: A 27) Which of the following is an example of a company of the properties. Answer: A 27) Which of the following is an example of a company of the properties. Answer: A 28) Number of students in a statistics class C) Tons of concrete to complete a parking D) Zip codes of shoppers. Answer: C 28) The incomes of 50 loan applicants are obtain A) Ratio B) Nominal Answer: A 29) When TV advertisements report that "2 out recommend Brand X toothpaste to their pating the conclusion because A) the sample of dentists is clearly explain B) the sample was only 5 dentists. C) the advertisement does not include the D) the conclusion is not illustrated with a Answer: C 30) A bank asks customers to evaluate its drive-Which level of measurement is this classification. A) Nominal B) Interval Answer: D	analysis, and interpretation of numerical information is referred Answer:	25) The number of children in a family is a discrete variable. Answer:	analysis, and interpretation of numerical information is referred to as statistics. Answer: True False 25) The number of children in a family is a discrete variable. Answer: True False 25) The number of children in a family is a discrete variable. Answer: True False TIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 26) The main purpose of descriptive statistics is to A) summarize data in a useful and informative manner. B) make inferences about a population. C) gather or collect data. D) determine if the data adequately represent the population. Answer: A 27) Which of the following is an example of a continuous variable? A) Rankings of baseball teams in a league B) Number of students in a statistics class C) Tons of concrete to complete a parking garage D) Zip codes of shoppers Answer: C 28) The incomes of 50 loan applicants are obtained. Which level of measurement is income? A) Ratio B) Nominal C) Interval D) Ordinal Answer: A 29) When TV advertisements report that "2 out of 3 dentists surveyed indicated they would recommend Brand X toothpaste to their patients," an informed consumer may question the conclusion because A) the sample of dentists is clearly explained. B) the sample of dentists is clearly explained. C) the advertisement does not include the total number of dentists surveyed. D) the conclusion is not illustrated with a graph. Answer: C 30) A bank asks customers to evaluate its drive-through service as good, average, or poor. Which level of measurement is this classification? A) Nominal B) Interval C) Ratio D) Ordinal Answer: D 31) A portion or part of a population is called a A) sample. B) tally. C) frequency distributi

32) If	Gallup, Harris, and oth	er pollsters asked peop	le to indicate their polit	cical party	32)	
af	filiations as Democrat,	Republican, or indepen	dent, the data gathered	would be an		
ez	cample of which scale of	of measurement?				
	A) Interval	B) Ratio	c) Ordinal	D) Nominal		
Α	nswer: D					
33) T	he members of each bas	sketball team wear num	bers on their jerseys. W	hat scale of	33)	
m	measurement are these numbers considered?					
	A) Nominal	B) Ratio	C) Ordinal	D) Interval		
Α	nswer: A					
34) A	marketing class of 50 s	students evaluated the in	nstructor using the follo	owing scale:	34)	
sı	iperior, good, average, j	poor, or inferior. The de	escriptive summary sho	wed the		
	ollowing survey results: iferior.	2% superior, 8% good,	45% average, 45% poo	or, and 0%		
	A) The instructor's perf	formance was inferior.				
	B) The instructor's perf	formance was great!				
		the instructor as poor o	r average.			
	D) No conclusions can	be made.				
Α	nswer: C					
35) A	survey includes a ques	tion about marital statu	s that has the following	responses:	35)	
si	ngle, married, divorced	, separated, or widowed	I. What is the scale of r	neasurement for		
th	is question?					
	A) Nominal	B) Interval	c) Ratio	D) Ordinal		
A	nswer: A					
36) R	espondents were asked,	"Do you now earn mor	re than or less than you	did five years	36)	
ag	go?" What is this level of	of measurement?				
	A) Nominal	B) Ratio	C) Interval	D) Ordinal		
Α	nswer: D					
37) W	hich word is NOT part	of the definition of des	criptive statistics?		37)	
	A) Summarizing	B) Predicting	C) Presenting	D) Organizing		
Α	nswer: B					
38) T	he reported unemploym	nent is 5.5% of the popu	lation. What measurem	nent scale is used	38)	
to	to measure unemployment?					
	A) Nominal	B) Ordinal	c) Ratio	D) Interval		
Α	nswer: C					
39) T	he Equal Employment (Opportunity Act require	s employers to classify	their employees	39)	
	y gender and national or			2 -		
	A) Nominal	B) Ratio	c) Ordinal	D) Interval		
Α	nswer: A					

40)	What level of measurement	ent is the Centigrade te	mperature scale?		40)
	A) Nominal	B) Ratio	C) Ordinal	D) Interval	
	Answer: D				
	XXXI	.1	c 1: 11	C*11*	
41)	What type of variable is	the number of gallons of	of gasoline pumped by a	a filling station	41)
	during a day?	D) Disamete	O) Attaibuto	D) Continuous	
	A) Qualitative	B) Discrete	C) Attribute	D) Continuous	
	Answer: D				
42)	The performance of pers	onal and business inves	stments is measured as a	a percentage	42)
·	called "return on investm	nent." What type of vari	able is "return on inves	tment"?	, <u> </u>
	A) Attribute	B) Qualitative	c) Continuous	D) Discrete	
	Answer: C				
	XX/1	4 1 6 11 .	. 1:		40)
43)	What type of variable is	the number of robberies B) Qualitative	s reported in your city? C) Attribute	D) Continuous	43)
	A) Quantitative	B) Qualitative	C) Attribute	D) Continuous	
	Answer: A				
44)	What type of variable is	the number of auto acci	idents reported in a give	en month?	44)
	A) Ratio	B) Continuous	C) Interval	D) Discrete	-
	Answer: D				
45\	Th		1 1	* 11	45)
45)	The names of the positions in a corporation, such as chief operating officer or controller, are examples of what type of variable?				
	A) Ratio	B) Interval	c) Qualitative	D) Quantitative	
	Answer: C	b) Interval	c) Quantative	D) Quantituti ve	
	Allswei. C				
46)	What type of variable is	"pounds of popcorn" se	erved at a movie theater	?	46)
	A) Continuous	B) Discrete	C) Interval	D) Ratio	
	Answer: A				
47\	The final rankings of the	ton 20 NCA A college	haalaathall taama ara an	ovemple of	47)
47)	The final rankings of the top 20 NCAA college basketball teams are an example of which level of measurement?				
	A) Ordinal	B) Interval	C) Nominal	D) Ratio	
	Answer: A	5) 11101 (41	<i>5)</i> 1 (<i>5</i> 111111111111111111111111111111111111	B) Itulis	
	74100001.70				
48)	Your height and weight a	•	level of measurement?		48)
	A) Interval	B) Nominal	c) Ratio	D) Ordinal	
	Answer: C				
\0)	Shoe style is an example	of what level of measu	rement?		49)
77)	A) Ordinal	B) Interval	C) Nominal	D) Ratio	¬'//
	Answer: C	,	-,	,	

50) The general process	of gathering, organizing	ng, summarizing, analyz	zing, and interpreting	50)
data is called				
A) inferential stat	istics.	B) levels of meas	urement.	
c) descriptive sta	tistics.	D) statistics.		
Answer: D		·		
51) The Nielsen Rating	s break down the numb	per of people watching a	particular television	51)
show by age. What	level of measurement i	is age?		
A) Interval	B) Ratio	c) Nominal	D) Ordinal	
Answer: B				
52) An example of a qu	alitative variable is			52)
A) weight of a per	rson.	B) color of ink in	a pen.	
C) miles between	oil changes.	D) number of chi	ldren in a family.	
Answer: B				
53) Which one of the fo	ollowing is NOT an exa	ample of discrete data?		53)
A) Number of hou	useholds watching the	Home Shopping Network	rk	
B) Number of me	mbers of the Denver L	ions Club		
c) Number of mil	les between New York	City and Chicago		
D) Number of em	ployees reporting in sid	ck		
Answer: C				
54) What level of meas	urement is a person's "t	favorite sport"?		54)
A) Ordinal	B) Interval	c) Ratio	D) Nominal	
Answer: D				
		gernail polish and ranke	ed them according to	55)
•	vel of measurement is			
A) Interval	B) Ratio	c) Ordinal	D) Nominal	
Answer: C				
•		urvey. In one of the que		56)
	~	or female. Gender is an	example of the	
A) nominal scale.		B) ratio scale.		
C) interval scale.		D) ordinal scale.		
Answer: A				
	0			
•		s and economics. Incom	e is an example of a	57)
variable that uses th	le			
A) ordinal scale.		B) interval scale.		
C) ratio scale.		D) nominal scale.		
Answer: C				

58) When statisticians analyze sample data in order to draw conclusions about the		58)
characteristics of a population, this is	referred to as	
A) descriptive statistics.	B) statistical inference.	
C) data summarization.	D) data analysis.	
Answer: B		
59) The length of a bridge, measured in n	neters, is an example of	59)
A) quantitative data.		
B) either categorical or quantitative	data.	
C) measurement data.		
D) categorical data.		
Answer: A		