Exam

Name			

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the stat
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1) A population is a collection of all individuals, objects, or measurements of interest.	1)
Answer: True False	
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 ♥ False	
4) The average number of passengers on commercial flights between Chicago and New	4)
York City is an example of a statistic.	, <u> </u>
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: True False	, <u> </u>
7) To infer something about a population, we usually take a sample from the population.	7)
Answer: True False	
8) Descriptive statistics are used to find out something about a population based on a	8)
sample.	
Answer: True 🕑 False	
9) There are four levels of measurement: qualitative, quantitative, discrete, and continuous.	9)
Answer: True ♥ False	
10) The ordinal level of measurement is considered the "lowest" level of measurement.	10)
Answer: True 🕑 False	
11) A store asks shoppers for their zip codes to identify market areas. Zip codes are an	11)
example of ratio data.	
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 Sealse	
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: Variety True False	

	24)	The branch of mathe	ematics used to facilitat	e the collection, orga	nization, presentation,	24) _	
		analysis, and interpre	etation of numerical inf	formation is referred t	to as statistics.		
		Answer: Variable True	False				
	٥-١	The				05)	
	25)		ren in a family is a disc	crete variable.		25) _	
		Answer: <a> True	False				
MULT	ΊΡΙ	_E CHOICE. Choose th	ne one alternative that be	st completes the statem	ent or answers the question	۱.	
	26)	• •	f descriptive statistics is			26)	
		•	a in a useful and inform	ative manner.			
		•	s about a population.				
		C) gather or collect		ant the nonulation			
		•	e data adequately repres	sent the population.			
		Answer: A					
	27)	Which of the follows	ing is an example of a	continuous variable?		27)	
		A) Rankings of bas	seball teams in a league	2		_	
		B) Number of stud	lents in a statistics class	S			
		·	te to complete a parking	g garage			
		D) Zip codes of sh	oppers				
		Answer: C					
	28)	The incomes of 50 lo	oan applicants are obtai	ined Which level of a	measurement is income?	28)	
	20)	A) Ratio	B) Nominal	C) Interval	D) Ordinal		
		Answer: A	-,	-,	-/		
	29)		nents report that "2 out	•	•	29)	
			X toothpaste to their pat	ients," an informed co	onsumer may question		
		the conclusion becau		4			
		, 1	entists is clearly explain	nea.			
		B) the sample was	ent does not include the	total number of dent	ists surveyed		
		•	is not illustrated with a		ists surveyed.		
		Answer: C	is not mastrated with a	Simpin.			
		7 this work. O					
	30)		ers to evaluate its drive		ood, average, or poor.	30)	
			surement is this classification				
		A) Nominal	B) Interval	c) Ratio	D) Ordinal		
		Answer: D					
	311	A portion or part of	a population is called a			31)	
	51)	A) sample.	a population to curiou u	B) tally.		-	
		C) frequency distri	ibution.	D) random surve	ey.		
		Answer: A		•	-		

32)	If Gallup, Harris, and oth	ner pollsters asked peop	le to indicate their poli	tical party	32)	
	affiliations as Democrat, Republican, or independent, the data gathered would be an					
	example of which scale	of measurement?				
	A) Interval	B) Ratio	c) Ordinal	D) Nominal		
	Answer: D					
33)	The members of each ba	sketball team wear num	ibers on their jerseys. V	Vhat scale of	33)	
	measurement are these n	umbers considered?				
	A) Nominal	B) Ratio	C) Ordinal	D) Interval		
	Answer: A					
34)	A marketing class of 50	students evaluated the i	nstructor using the foll	owing scale:	34)	
	superior, good, average,	poor, or inferior. The d	escriptive summary sho	owed the	· 	
	following survey results: inferior.	: 2% superior, 8% good	, 45% average, 45% po	or, and 0%		
	A) The instructor's per	formance was inferior.				
	B) The instructor's per	formance was great!				
		the instructor as poor of	or average.			
	D) No conclusions can	be made.				
	Answer: C					
35)	A survey includes a ques	stion about marital statu	s that has the following	g responses:	35)	
	single, married, divorced	l, separated, or widowed	d. What is the scale of a	measurement for		
	this question?					
	A) Nominal	B) Interval	c) Ratio	D) Ordinal		
	Answer: A					
36)	Respondents were asked, "Do you now earn more than or less than you did five years					
	ago?" What is this level of measurement?					
	A) Nominal	B) Ratio	C) Interval	D) Ordinal		
	Answer: D					
37)	Which word is NOT par	t of the definition of de	scriptive statistics?		37)	
	A) Summarizing	B) Predicting	c) Presenting	D) Organizing		
	Answer: B					
38)	The reported unemployn	nent is 5.5% of the popu	ılation. What measuren	nent scale is used	38)	
	to measure unemployment?					
	A) Nominal	B) Ordinal	c) Ratio	D) Interval		
	Answer: C					
39)	The Equal Employment	Opportunity Act require	es employers to classify	their employees	39)	
	by gender and national of	origin. Which level of m	easurement is this?			
	A) Nominal	B) Ratio	c) Ordinal	D) Interval		
	Answer: A					

40)	What level of measurement	ent is the Centigrade te	mperature scale?		40)
	A) Nominal Answer: D	B) Ratio	C) Ordinal	D) Interval	
41)	What type of variable is	the number of gallons of	of gasoline pumped by a	a filling station	41)
	during a day? A) Qualitative Answer: D	B) Discrete	C) Attribute	D) Continuous	
42)	The performance of persocalled "return on investm				42)
	A) Attribute Answer: C	B) Qualitative	C) Continuous	D) Discrete	
43)	What type of variable is A) Quantitative	the number of robberies B) Qualitative	s reported in your city? C) Attribute	D) Continuous	43)
44)	Answer: A What type of variable is	the number of auto acc	dents reported in a give	en month?	44)
,	A) Ratio Answer: D	B) Continuous	C) Interval	D) Discrete	.,,
45)	The names of the positio are examples of what typ	•	h as chief operating off	icer or controller,	45)
	A) Ratio Answer: C	B) Interval	C) Qualitative	D) Quantitative	
46)	What type of variable is A) Continuous Answer: A	"pounds of popcorn" se B) Discrete	erved at a movie theater C) Interval	? D) Ratio	46)
47)	The final rankings of the which level of measurem		basketball teams are an	example of	47)
	A) Ordinal Answer: A	B) Interval	C) Nominal	D) Ratio	
48)	Your height and weight a	are examples of which B) Nominal	level of measurement? C) Ratio	D) Ordinal	48)
40\	Answer: C	of what lavel of massy	ramant?		40)
49)	Shoe style is an example A) Ordinal Answer: C	B) Interval	C) Nominal	D) Ratio	49)

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)	58) When statisticians analyze sample data in order to draw conclusions about the		
	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 meters, is	an example of	59)
	A) quantitative data.		_
	B) either categorical or quantitative data.		
	C) measurement data.		
	D) categorical data.		

Answer: A