MULTIPLE CHOICE

1.	When you assert that you are using a. descriptive statist b. scale c. reliability d. inferential statists	tics	probable that t	he mear	n intelligence test score of a particular group is 100,
	ANS: D	PTS:	1	REF:	Why We Need Statistics
2.	Statistical procedures a. inferential statist b. descriptive statist c. scales. d. ratios.	ics.	mmarize and d	lescribe	a series of observations are called
	ANS: B	PTS:	1	REF:	Why We Need Statistics
3.	Statistical procedures sample are called a. populations. b. descriptive statistic. inferential statistid. ratios.	tics.	low one to mak	ce infere	ences about large groups by examining a smaller
	ANS: C MSC: www	PTS:	1	REF:	Why We Need Statistics
4.	Which of the following a. confirmatory data b. tests of statistical c. factor analysis d. psychometrics	a analys	sis	nst rigic	l statistical rules?
	ANS: A	PTS:	1	REF:	Why We Need Statistics
5.	Trial by judge and judge a	ptions lidity ructs		igation	and prosecution as confirmatory data analysis is to
	ANS: D	PTS:	1	REF:	Why We Need Statistics
6.	Scales of measureme a. magnitude, absol b. magnitude, relati c. numbers, relative d. magnitude, absol	ute mea ve zero, zero, a	nsurement, and , and equal inte and equal interv	equal in ervals. vals	
	ANS: D	PTS:	1	REF:	Scales of Measurement

7.	Which of the follows a. ordinal b. interval c. nominal d. ratio	ing scale	es has the prope	erties of	f magnitude, absolute zero, and equal intervals?
	ANS: D	PTS:	1	REF:	Scales of Measurement
8.	A scale that allows of comparison to anoth a. nominal b. ordinal c. interval d. ratio				s more, less, or an equal amount of the attribute in scale.
	ANS: B	PTS:	1	REF:	Scales of Measurement
9.	A property of a scale a. magnitude. b. absolute zero. c. equal interval. d. ratio.	that im	plies the compl	lete abs	ence of the measured attribute is called a(n)
	ANS: B	PTS:	1	REF:	Scales of Measurement
10.	Many feel that the di an IQ 70 and 75. The a. absolute zeroes b. magnitudes c. ratios d. equal intervals				and 105 is not the same as the difference between ck
	ANS: D MSC: www	PTS:	1	REF:	Scales of Measurement
11.	Which of the follows quantitative? a. ordinal b. interval c. nominal d. ratio	ing scale	es would be use	ed when	n the information is qualitative rather than
	ANS: C	PTS:	1	REF:	Scales of Measurement
12.					ement of a scale (strength) and an outcome (pounds $+bX$, the scale is said to have what property?
	ANS: B	PTS:	1	REF:	Scales of Measurement

13.	The speedometer on a. nominal b. ordinal c. interval d. ratio	your can	r is an example	of wha	at kind of scale measurement?
	ANS: D	PTS:	1	REF:	Scales of Measurement
14.	A scale that allows udifferences between a. nominal scale. b. ordinal scale. c. interval scale. d. ratio scale.			r object	s, but not to say anything about the meaning of the
	ANS: B	PTS:	1	REF:	Scales of Measurement
15.	The Fahrenheit scale a. nominal. b. ordinal. c. interval. d. ratio.	of temp	perature (32°F=	= freezi	ng; 212°F= boiling) is best described as
	ANS: C	PTS:	1	REF:	Scales of Measurement
16.	In which scales can ya. nominal scale and b. ordinal scale and c. interval scale and d. ratio scale and in	nd ordina l interva d nomin	al scale l scale al scale	nterpre	tation of an arithmetic operation such as addition?
	ANS: D	PTS:	1	REF:	Scales of Measurement
17.	Which type of scale a. nominal b. ordinal c. interval d. ratio	simply r	anks observati	ons?	
	ANS: B	PTS:	1	REF:	Scales of Measurement
18.	An equal interval is a. telephone number b. rulers c. National Footbard. ethnicity distribution	ers ll Leagu			ng?
	ANS: B	PTS:	1	REF:	Scales of Measurement
19.	What do the rules us a. Transform the qu b. Identify and corn c. Relate individua d. Allow for the de	ualities of rect for p l scores terminat	of attributes into tootential source to those of the tion of reliabili	o numbes of bia normat ty and v	as. ive populations. validity.
	ANS: A	PTS:	1	KEF:	Scales of Measurement

20.		her instance, the scaley	a particular instance has more, less, or the same amount of an e is said to have	
	ANS: C	PTS: 1	REF: Scales of Measurement	
21.		uation, the scale is sa alidity icance	measured units and some outcome can be described by a straig id to have	ght
	ANS: D	PTS: 1	REF: Scales of Measurement	
22.	Which type of s absolute zero? a. ordinal b. nominal c. ratio d. interval	cale does not have n	agnitude, does not have equal intervals, and does not have an	
	ANS: B	PTS: 1	REF: Scales of Measurement	
23.	Which type of s a. ordinal b. nominal c. ratio d. interval	cale has magnitude a	nd equal intervals, but does not have an absolute zero?	
	ANS: D	PTS: 1	REF: Scales of Measurement	
24.	a. multiplicationb. creation of fc. comparison	on by transform equa frequency distributio	ns ne relative quantities	
	ANS: B	PTS: 1	REF: Scales of Measurement	
25.	a. They are the cases.b. They are a rc. They must be	e ratio of the number measurement of the e be computed in order are useful in describi	e description of percentile ranks? of cases below a score of interest to the total number of extent to which scores are normally distributed. to use most statistical analysis techniques. ng nominal scales, they cannot be used with interval and	
	ANS: A	PTS: 1	REF: Scales of Measurement	

	c. They describe th	erse of phat percent relation	percentile ranks entage of score onship of test se	s. es fall be cores to	elow a given score. the hypothesized constructs. servations into hundredths.
	ANS: D	PTS:	1	REF:	Scales of Measurement
27.	In a frequency distri a. on the horizonta b. on the vertical a c. in the legend. d. in the title.	l axis.	the scores, from	n lowes	t to highest, are typically arranged
	ANS: A	PTS:	1	REF:	Frequency Distribution
28.	There are more peop distribution does this a. normal b. positively skews c. negatively skews d. bell curve	s illustra ed		e low en	d as compared to the high end. What kind of
	ANS: B	PTS:	1	REF:	Frequency Distribution
29.	In order to rank grousize, you would use a. class interval. b. simple rank. c. percentile rank. d. mean.		bers in relation	ship to t	he number of other members of groups of arbitrary
	ANS: C	PTS:	1	REF:	Percentile Ranks
30.	In order to calculate a. how many cases b. whether the dist c. the standard dev d. the nature of the	are bell ribution iation o	ow the score of is normal or slot the scores.	interes	
	ANS: A	PTS:	1	REF:	Percentile Ranks
31.	rank would be a. 20.	50 peop	ole in your class	and yo	u obtained the 20th highest score. Your percentile
	b. 40. c. 50. d. 60.				

32.	A percentile rank is a a. actual performan b. relative performa c. absolute perform d. peak performanc	ce. ance. ance.	re of		
	ANS: B	PTS:	1	REF:	Percentile Ranks
33.	Suppose you are in that a. you are among the b. 87% of the stude c. you got 87% of the stude d. 87% of the stude	ne top 1 nts got he test i	3 students in that a score lower that the score correct.	e class. nan you	urs.
	ANS: B	PTS:	1	REF:	Percentiles
34.	Calculate the mean for a. 3.0 b. 4.5 c. 5.5 d. 6.0	or the fo	ollowing set of	scores:	4, 8, 3, 7.
	ANS: C	PTS:	1	REF:	Describing Distributions
35.	In statistics, the Rom a. the variance of a b. the variance of a c. the standard devi d. the standard devi	populate sample ation of	tion. f a population.		
	ANS: D	PTS:	1	REF:	Describing Distributions
36.	The standard deviation as reflects the similar between certain an approximate d. always equals 0.	arity an f all sco ion of tl	ores minus the r	nean sq	
	ANS: C	PTS:	1	REF:	Describing Distributions
37.	A measure of how ma. mean. b. frequency. c. variance. d. median.	uch sco	res within a dis	tributio	on differ among themselves is the
	ANS: C MSC: www	PTS:	1	REF:	Describing Distributions
38.	If you are given \overline{X} = a. 2.0 b. 14.25 c. 16.0 d. 30.5	57 and	S = 4, what is t	he vari	ance?
	ANS: C	PTS:	1	REF:	Describing Distributions

39.		es below contains th	ne most varial		
	a. 15 15	b. 3 4	c.	1 4	d. 25 27
	15	3		2	25
	15	4		5	27
	15	3		1	25
	15	4		6	27
	ANS: C	PTS: 1	REF:	Describing Distrib	outions
40.	b. tells us how nc. tells us how n	nce between a score nany standard devia nany standard devia d deviation of a pop	tions the scor	e is below the avera	age score.
	ANS: A	PTS: 1	REF:	Describing Distrib	outions
41.	In a distribution v a12 b2 c. 2 d. 12	where $X = 21$ and $S = 21$	= 3, what is th	e Z-score of a raw	score of 15?
	ANS: B	PTS: 1	REF:	Describing Distrib	outions
42.	When deviation s a. indeterminate b. < 0. c. 0. d. > 0.	cores around the me	ean are added	up, their mean will	be
	ANS: C	PTS: 1	REF:	Describing Distrib	outions
43.	In a symmetrical a. ends of the di b. center of the di c. top of the dist d. bottom of the	stribution. distribution. cribution.	y distribution,	the greatest freque	ncy of scores is near the
	ANS: B	PTS: 1	REF:	Describing Distrib	outions
44.	If a score is equal a. < 0. b. exactly 0. c. > 0. d. impossible to	to the mean, its Z s calculate.	core will be		
	ANS: B	PTS: 1	REF:	Describing Distrib	outions
				Ç	

45.	A Z score of 1.0 is a a. 16th percentile. b. 50th percentile. c. 75th percentile. d. 84th percentile.	ssociate	d with approxi	mately 1	the
	ANS: D	PTS:	1	REF:	Describing Distributions
46.	The square root of ta. true variance. b. standard deviation. c. mean. d. variability of the	on.			
	ANS: B	PTS:	1	REF:	Describing Distributions
47.	One advantage of use. a. you do not need b. they can show to c. they are easier to d. you don't need to	I to knov he effect o interpr	the mean. s of test bias. et.	viation	
	ANS: C	PTS:	1	REF:	Describing Distributions
48.	A Z score of 0 woul a. 0 b. 1 c. 16 d. 50	d corres _l	oond to approx	imately	what percentile?
	ANS: D	PTS:	1	REF:	Describing Distributions
49.	A Z score of 3 is appa. 0 b. 3 c. 6 d. 99	proximat	tely how many	standar	rd deviations above the mean?
	ANS: B MSC: www	PTS:	1	REF:	Describing Distributions
50.	A Z score of -1 wou a. 0 b. 16 c. 50 d. 84	ld corres	spond to approx	ximatel	y what percentile?
	ANS: B	PTS:	1	REF:	Describing Distributions
51.	A score at the 98th pa. 0 b. 1 c. 2 d. 98	percentil	e is approxima	tely hov	w many standard deviations above the mean?
	ANS: C	PTS:	1	REF:	Describing Distributions

52.	A score at the 50th per a. 0 b. 1 c. 2 d. 50	ercentile is approxima	tely hov	v many standard deviations above the mean?
	ANS: A	PTS: 1	REF:	Describing Distributions
53.	b. a mean of 5 and ac. a mean of 10 and	ve a standard deviation o a standard deviation o l a standard deviation l a standard deviation	f 2. of 2.	
	ANS: D	PTS: 1	REF:	Describing Distributions
54.	Approximately what a. 1% b. 16% c. 34% d. 50%	percentage of scores f	falls belo	ow the mean in a standard normal distribution?
	ANS: D	PTS: 1	REF:	Describing Distributions
55.	b. more scores fall ac. more scores fall b	es cluster on the ends of above the mean than be below the mean than a	elow th	e mean.
	ANS: D	PTS: 1	REF:	Describing Distributions
56.	Distributions of score a. 5 b. 9 c. 10 d. 25	es can be divided into	how ma	any equal deciles?
	ANS: C	PTS: 1	REF:	Describing Distributions
57.	A raw score is also ca a. estimated score. b. predicted score. c. sigma. d. obtained score.	alled a(n)		
	ANS: D	PTS: 1	REF:	Describing Distributions
58.	Interquartile range is a. bottom 25% of the b. middle 25% of the c. middle 50% of the d. top 50% of the di	ne distribution. ne distribution. ne distribution.		
	ANS: C	PTS: 1	REF:	Describing Distributions

59.	Three fourths of all s a. below Q2. b. above Q2. c. below Q3. d. above Q3.	cores in	a distribution	fall	
	ANS: C	PTS:	1	REF:	Describing Distributions
60.	a. decileb. McCall's <i>T</i>c. stanined. quartile			n of 5 a	nd a standard deviation of approximately 2?
	ANS: C	PTS:	1	REF:	Describing Distributions
61.	Within the quartile sy a. 20th percentile. b. 50th percentile. c. 75th percentile. d. 80th percentile.	vstem, t	he 2nd quartile	is the	
	ANS: B	PTS:	1	REF:	Describing Distributions
62.	If you score in the up a. you scored in the b. you scored in the c. you scored better d. you scored better	25th po 75th po than 1/	ercentile or highercentile or higher 4 of all people.	her.	
	ANS: B	PTS:	1	REF:	Describing Distributions
63.	The mean of a standa a. is zero. b. is a norm. c. never changes. d. is always a Z sco		on sample		
	ANS: B	PTS:	1	REF:	Norms
64.	The performance by a. quartile. b. median. c. norm. d. tracking score.	a define	ed group on a p	articula	r test is called a(n)
	ANS: C	PTS:	1	REF:	Norms

65.		s your chi				25th percentile for weight at age 2. She is staying near the 25th percentile.
	ANS: A	PTS:	1	REF:	Norms	
66.	Comparing an indiva. tracking. b. within-group not c. norm monitorind. criterion monitoring.	orming.	st score only w	vith me	mbers of his/he	r own racial group is an example of
	ANS: B	PTS:	1	REF:	Norms	MSC: www
67.	The Triple ZZZ Corwas comprised of ba. translocation. b. normalization. c. overselection. d. representativen	lack male				wever, only 50% of the applicant pool
	ANS: C	PTS:	1	REF:	Norms	
68.	In the Civil Rights a. within-group no b. employers were c. within-group no d. employers were	orming was prohibited prming was	as made legal. ed from using t as made illegal	test sco	_	cisions.
	ANS: C	PTS:	1	REF:	Norms	
69.	A test that compare a. a transformed to b. a criterion-refer c. a norm-reference d. a within-group	est. renced test ced test.	t.	rm is ca	lled	
	ANS: C	PTS:	1	REF:	Norms	
70.	trouble with assignma. criterion-reference b. norm-reference c. personality d. projective	nents that need d	t involved writ	ing pap	ers. She probab	ry well in reading but was having bly took what kind of test?
	ANS: A	PTS:	1	REF:	Norms	

ESSAY

1.	Develop an	example of ea	ch of the	following	scales: nominal	, ordinal,	interval,	and ratio.
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ANS:

Answer not provided.

PTS: 1

REF: Scales of Measurement

2. Explain why the mean of a distribution of Z scores is equal to 0.

ANS:

Answer not provided.

PTS: 1

REF: Describing Distributions

3. Compare and contrast norm-referenced and criterion-referenced tests.

ANS:

Answer not provided.

PTS: 1

REF: Norms

4. Compute the percentile rank for each of the following scores. Show your work.

ANS:

Answer not provided.

PTS: 1

REF: Percentile Ranks