RETURN THIS EXAM TO DISCUSSION SECTION NUMBER				
STATISTICS 2023	NAME, IN INK			
EXAM ONE	SIGNATURE, IN INK			
SPRING 2000	SS NUMBER, IN INK			
Once this exam is grade	ed and returned to you retain it t			
TRUE OR FALSE. Answ	er with a capital T or F.	(3 points each)		
1. Relative freque category of the variable.	ncy tells the proportion of the obs	ervations that are in a certain		
2. The range of a typically miss the mean of	data set is the number of units the the data set.	at the individual observations		
observations would lie mol	assumed to be mound-shaped the re than one standard deviation fro	m the mean of the data set.		
4. The mean, mod dispersion in the set.	e and standard deviation of a data	a set measure the amount of		
5. If the z score for one and one-half standard	r an individual data value is -1.5 th deviations either above or below	nen the data value is located the mean of the data set.		
6. If the shape of a within one standard deviati	data set is unknown then maybe on of the mean.	none of the data values lie		
7. The sample space of the experiment.	ce of an experiment is the set of the	he five most likely outcomes		
8. The median of a quartile of that data set.	data set is the 50 <sup>th</sup> percentile of the	he data set and the second		
9. The probability o probabilities of the two ever	f the union of two events is the sunts for any two events, A and B.	m of the marginal		
10. Two events, A a marginal probabilities is equ	nd B, are known to be independer all to the probability of the intersec	nt if the product of their		

	EXAM ONE State the answer on the		PAGE 2. (3 points each)
11. How ma observations has a relati	any observations are in a ve frequency of 0.15?	data set if a category v	with 24
12. If a data 10,154.75 and a sum of 6 your answer with one dig	set with 75 observations 337.5 what is the numeric it past the decimal.	yields a sum of square al value of the sample	es equal to mean? State
13. If a data 10,154.75 and a sum of 6	set with 75 observations 37.5 what is the numerica	yields a sum of square al value of the sample	es equal to variance?
14. If a data hundred fifty 20's, four-hundred value of the median?	set with a thousand obse ndred 30's, and one-hund	rvations has one-hund dred fifty 40's what is th	red 10's, three- ne numerical
15. The mean the standard deviation for the shape of the distribution the tuition per semester?	n tuition cost per semeste tuition cost per semester en at most what percent	er at a state university in its \$150. If nothing is kelof students pay more to	is \$1,100 and known about the han \$1400
The height of mature cottor has a mound-shaped distril feet. Use this information to	o answer the remainder of	of the questions on this	eviation of 4 s page.
taller than 42 feet?	ately what percent of cotto	onwood trees in this po	pulation are
17. Only about than what height?	t 2.5% of the cottonwood	trees in this population	n are shorter
18. Almost all owhat two heights?	of the cottonwood trees in	ı this population would	be between

STATISTICS 2023 STATE THE ANSWER.	EXAM ONE State the answer on	SPRING 2000 the line given.	PAGE 3 (3 points each
19. The gra standard deviation of 12. State your answer with o	vvnat is the z score a	ccounting test has a mear associated with the exam onal.	า of 62 with a grade of 44?
20. The gra standard deviation of 12. associated with the grade	what is the value of a	ccounting test has a mean a student's exam grade if t	of 62 with a the z score
remainder of the question	neight was measured Use this sample of sta	I on each bird. The height anding heights of blue her	to recorded in
21. What is sample?	the numerical value of	the sum of the squares fo	or the above
22. What is t	he numerical value of	the sum for the above sar	mple?
23. What is t State your answer with on	he numerical value of e digit past the decima	the mean of the above sa al.	mple of heights?
24. What is a heights?	ι numerical value for th	he median of the above sa	ample of
25. What is the heights? State your answ	he numerical value of t ver with two digits past	the variance of the above the decimal.	sample of
26. What is the sample of heights? Round	ne numerical value of t I your answer to two d	the standard deviation of t ligits past the decimal.	he above

STATI	THE ANSWER. St	EXAM ONE ate the answer on	SPRING 20 the line given.	(3 points each
	chele completes her look	nity that John comp homework is 9 If	oletes his homewor	n STAT 2023 usually k is .8 and the probabilit hele complete the chele completes the
home t				y often invite you to their invited, you go over to id you go over to eat?
are sho	page. Do not reduce	ge meir major is io ble. Use this table	cated in was also re	ot they plan to attend ecorded. The results ainder of the questions
Plan to	go to Graduate School	Yes	No	Don't Know
.⊑ ::	Business	76	136	55
Major in College:	Arts & Sciences	49	88	126
žΰ	Agriculture	22	34	14
	0 0011001;	ident chosen has a	e major in the Colle	is planning to go to ge of Business what is
is the pro	31. Given that a obability that the stude	student who plans ent has a major in t	to go to graduate s the College of Arts	school is chosen what & Sciences?
not plan	32. What is the p to go to graduate sch	robability that if on ool and has a majo	e student is choser or in the college of <i>I</i>	n that the student does Arts & Sciences?
currently of Busine	account know in they	robability that if on want to go to grad	e student is choser luate school or has	that the student a major in the College