	RETURN TO DISCUSSION SECTION NUMBER_				
STATISTICS 2023	NAME, IN INK	,			
EXAM ONE	SIGNATURE, IN INK				
SPRING 1999	SS NUMBER, IN INK				
Once this exam is graded and retu	rned to you retain it for grade verification.				
TRUE OR FALSE. Answer with a capi	tal T or F.	(3 points each)			
1. Relative frequency is the observations.	frequency of the category with respect to the to	otal number of			
2. The range of a data set is the number of units span by the data set.					
3. If a data set is assumed to be mound-shaped then approximately 95% of the data would lie inside of the interval of values which are within two standard deviations of the mean					
4. The mean, mode and m set.	edian of a data set measure the amount of dis	spersion in the			
5. If the z score is -2.5 for an individual data value from a population with mean of 14 and variance of 4 then the individual data value is equal to 9.					
6. If a data set is mound shaped with a mean of 20 and a standard deviation of 5 then about 95% of the observations would be between 15 and 25.					
7. The sample space of an experiment.	experiment is comprised of all of the possible	outcomes of the			
8. The standard deviation to mean of the data set.	ells the typical difference between the data va	lues and the			
9. The marginal probability of an event is the probability of the event conditione the occurrence of another event.					
10. The mean of a data set c	an not be exactly the same number as the me	edian of the data			

STATISTICS 2023 STATE THE ANSWER.	EXAM ONE State the answer on the line give	SPRING 1999 en.	PAGE 2. (3 points each)
11. How a relative frequency	many observations are in a data of 0.05?	set if a category with 2	24 observations has
12. If from is 363 what is the nuther decimal.	om a data set with 165 observation Umerical value of the sample med	ns the sum of squares an? State your answer	is 1,253 and the sum with one digit past
13. If from is 363 what is the number past the decimal.	om a data set with 165 observation Umerical value of the sample vari	ns the sum of squares ance? Round your ans	is 1,253 and the sum wer to two digits
14. If a fifty twos, one hundinger	data set with six hundred observ red threes, one hundred fifty four	ations had one hundre s what is the numerical	d ones, two hundred value of the
15. If a of 18 at most what p	data set with unknown shape ho percent of the observations could	is a mean of 272 and a lie outside of the interv	standard deviation al (236, 308)?
distribution with a n	trees on a specific northern Okla nean of 28 feet and a standard o der of the questions on this page	leviation of 8 teet. Use	ound-shaped this information to
16. App greater than 36 fee	proximately what percent of the c t?	edar trees in that pastu	ıre has heights
17. Abo	out 16% of the cedar trees in that	pasture are shorter tha	n what height?
18. The	e heights of about 95% of all of th	e cedar trees in this pa	sture are between

STATISTICS 2023 EXAM ONE STATE THE ANSWER. State the answer on the line given.	SPRING 1999 PAGE 3. (3 points each)
19. The grade distribution of a certain algebra standard deviation of 10. What is the z score associated with answer with one digit past the decimal.	
20. The grade distribution of a certain algebra standard deviation of 10. What is the value of a student's e with the grade is -1.8?	
A random sample of eight blue heron was chosen in Payne The standing height was measured on each bird. The heighbelow. Use this sample of standing heights of blue heron to questions on this page. 42.6, 49.2, 44.8, 42.1, 49.9, 51.7,	ghts recorded in inches are stated to answer the remainder of the
76.78	
21. What is the numerical value of the sum of t	he squares for the above sample?
22. What is the numerical value of the sum for	the above sample?
23. What is the numerical value of the mean of Round your answer to two digits past the decimal.	of the above sample of heights?
	Nardament en lagra en el A
24. What is a numerical value for the median	of the above sample of heights?
25. What is the numerical value of the variance Round your answer to two digits past the decimal.	
26. What is the numerical value of the standar heights? Round your answer to one digit past the decimal	

STATISTICS 2023 STATE THE ANSWER.	EXAM State the answ		ne given.	SPRING 1999	(PAGE 4. 3 points each)		
27. Of the of the time. If one of functions properly 94 properly?	wo computers of the computers 4% of the time v	functions i	properly 96	% of the time a	nd the othe	er computer		
28. Sup come to visit you is 0 is 0.90. What is the	pose you have).70. If Mike co probability that	mes to visi	you the pro	obability that Be	ecky will co	at Mike will me to visit you		
Five hundred college students were questioned about whether or not they plan to attend summer school. What college their major is located in was also recorded. The results are shown in the following table. Use this table to answer the remainder of the questions on this page. Do not reduce fractional answers. GOING TO SUMMER SCHOOL?								
COLLEGE WHICH MA		Y€		No 2	Don't Kno	vv		
College of Agricultu	re	18	3	16	64			
College of Arts & Sc	ience	. 4	-	22	228	ž.,		
29. Wh school?	at is the probal	oility of cho	osing a stu	dent who is plo	anning to g	o to summer		
30. If the one student chosen has a major in the College of Business what is the probability that the student is planning to go to summer school?								
31. Giv probability that the	en that a stude student has a r	nt who pla najor in the	ns to go to s e College of	summer schoo Agriculture?	l is chosen	what is the		
32. When the plan to go to summ	nat is the proba ner school and l	bility that if nas a majo	one studer or in the coll	nt is chosen tha ege of Arts & S	t the stude ciences?	nt does not		
33. What is the probability that if one student is chosen that the student currently does not know if they want to go to summer school or has a major in the College of Business?								