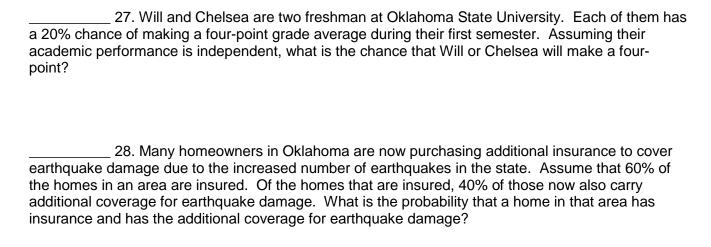
STATISTICS 2023	NAME, PRINT	IN INK					
EXAM ONE	SIGNATURE, IN INK						
FALL 2017	CWID, IN INK						
Once this exam is graded and re TRUE OR FALSE. Answer with a		tain it for gra	ade verification.	(3 points each)			
1. Histograms are bar grap	hs for categorical	data that is	ordinal or nomina	l.			
2. The mean and the median and the median splits the data set of		re the same v	value since the m	ean is the average			
3. If a data set is assumed lie above the interval of values which							
4. The median of a data se	t is always the 50	th percentile (of the data set.				
5. If the z score is -2.4 for a standard deviation of 7 then the inc				nean of 56 and			
6. If a data set is mound sh 68% of the observations would be be			standard deviation	on of 5 then about			
7. The probability of an every which indicates the likelihood of the		etween the va	alues of 0 and 1, i	including 0 and 1,			
State the Answer. State the answ The weekly changes in a major stochanges in percent are stated below page.	ck were recorded	for 8 weeks	•				
2.1 5.2	1.8 -3.4	1.1 -2.2	0.8 -0.4				
8. What is the sum of	the data?						
9. What is the sum of	the squares of the	e data?					
10. What is the square	e of the sum of th	e data?					

STATISTICS STATE THE		. Sta	EXAM te the a		on the	e line g	iven.	FALL	_ 2017	(3 p	PAGE 2. oints each
the relative fr	11. How m equency o					categoi	ry if the	data se	et has 40	0 observa	ations and
is 82, what is											and the sum ecimal.
is 82, what is								n of squ	ares is 7	,197.62 a	and the sum
	14. If a da what is the							3000 s	sevens, 4	1500 eigh	ts, and
of 14 units, th											d deviation 8?
The early su were all at, o high tempera to answer the	r above, th atures in St	e ave illwate	rage hi er, Okla	igh tem ahoma	peratur betwee	e for th	at date.	The fo	ollowing o	data are t	he daily
	1	03,	103,	101,	99,	98,	90,	99,	100		
answer with	16. What i three digits				e 8 obse	ervation	ıs of dai	ly high	tempera	tures? S	ate your
	17. What i	s the	mediar	n of the	se 8 ob	servatio	ons of d	aily hig	h temper	atures?	
Round your a	18. What i						3 observ	vations	of daily h	nigh temp	eratures?

STATISTICS STATE THE		EXAM ONE State the answer on the	line given.	FALL 2017	PAGE 3. (3 points each)
deviation of is 0.5?		de distribution of a certain the value of a student's exa			
	8 minutes. V	t time at a certain pharmad Vhen you were last at that e based on your wait time o	pharmacy you	r wait time was 34.4	
	et and a stan	enses in a small compan dard deviation of \$225. Us			
\$2,825?	₋ 21. Approxi	mately what percent of the	months have t	ravel expenses gre	eater than
	_ 22. About 0	.025 or 2.5% of the month'	s travel expens	ses are less than w	hat amount?
above, what		on the description of the dis ximate highest monthly tra			es provided
expenses?	$_{\scriptscriptstyle -}$ 24. What is	the value of the 16 th perce	ntile in the dist	ribution of monthly	travel
associated v		month the travel expense th's observed expenses?	was \$2,420. V	Vhat is the value of	the z-score
the value of		score associated with a mo travel expenses?	onth's observed	d travel expenses w	vas 2.4, what is

STATISTICS 2023 EXAM ONE FALL 2017 PAGE 4. STATE THE ANSWER. State the answer on the line given. (3 points each)



Four hundred college students were questioned about whether or not they plan to attend an OSU Celebration Event. The student's classifications in school were 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.**

	Classification in School at Oklahoma State University					
Plan to attend OSU Event?	Freshman	Sophomore	Junior	Senior		
Yes	44	78	68	48		
No	34	48	36	44		

the OSU Celebration Event or is a sophomore in college?

29. What is the probability of choosing a student who is planning to go to the OSU Celebration Event? Do not reduce fractional answers.	
30. If the one student chosen is a freshman, what is the probability that the student is planning to go to the OSU Celebration Event?	
31. Given that a student who plans to go to the OSU Celebration Event is chosen, what is the probability that the student is a junior in college?	t
32. What is the probability that if one student is chosen, that the student does not plan t go to the OSU Celebration Event and is a senior in college?	to
33. What is the probability that if one student is chosen, that the student plans to go to	