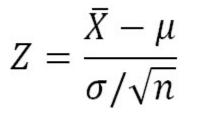
## Statistics Exam

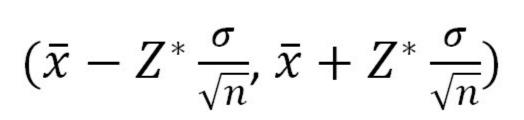
## Topics to Know:

- 1. Rounding and Significant Digits
- 2. Calculating Summary Statistics
- 3. Exponent Rules
- 4. Logarithm Rules
- 5. Factorials
- 6. Basic Algebra
- 7. Descriptive Statistics
- 8. Probability
- 9. Z-test
- 10. Standard Error vs. Standard Deviation
- 11. Central Limit Theorem
- 12. Calculating Z-Scores
- 13. Reading and using a Z-table
- 14. Confidence Intervals
- 15. Inference (Comparison of Means)
- 16. Types of Errors (Type I, II)
- 17. Z-test

Please refer to the recording to ensure that you are familiar with how to perform inference, understand all the rules for logarithms and exponents, know basic algebra and summary statistics, etc... Use the recording and the online review website!!!!

Equations:





## **Standard Normal Probabilities**

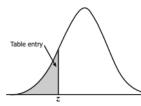


Table entry for z is the area under the standard normal curve to the left of z.

-3.4 .0003 -3.3 .0005 -3.2 .0007 -3.1 .0010 -3.0 .0013 -2.9 .0019 -2.8 .0026	.0007 .0009 .0013 .0018 .0025	.0003 .0005 .0006 .0009 .0013 .0018	.0003 .0004 .0006 .0009 .0012	.0003 .0004 .0006 .0008 .0012	.0003 .0004 .0006 .0008	.0003 .0004 .0006	.0003 .0004 .0005	.0003 .0004 .0005	.0002
-3.2 .0007 -3.1 .0010 -3.0 .0013 -2.9 .0019	.0007 .0009 .0013 .0018 .0025	.0006 .0009 .0013 .0018	.0006 .0009 .0012	.0006 .0008	.0006	.0006			
-3.1 .0010 -3.0 .0013 -2.9 .0019	.0009 .0013 .0018 .0025	.0009 .0013 .0018	.0009 .0012	.0008			.0005	0005	0005
-3.0 .0013 -2.9 .0019	.0013 .0018 .0025	.0013 .0018	.0012		.0008			.0005	.0005
-2.9 .0019	.0018 .0025	.0018		0012		.0008	.0008	.0007	.0007
	.0025		0047	.0012	.0011	.0011	.0011	.0010	.0010
-2.8 .0026			.0017	.0016	.0016	.0015	.0015	.0014	.0014
	0024	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
-2.7 .0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
-2.6 .0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
-2.5 .0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
-2.4 .0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
-2.3 .0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
-2.2 .0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
-2.1 .0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
-2.0 .0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
-1.9 .0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
-1.8 .0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
-1.7 .0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
-1.6 .0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
-1.5 .0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
-1.4 .0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
-1.3 .0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
-1.2 .1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
-1.1 .1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
-1.0 .1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
-0.9 .1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
-0.8 .2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
-0.7 .2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
-0.6 .2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
-0.5 .3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
-0.4 .3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
-0.3 .3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
-0.2 .4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
-0.1 .4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
-0.0 .5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641