

## 2023-2024 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

**Starting 2019 - Z-Scores must ALWAYS be calculated to get full credit.**

				Homework	Reading	4B
Chapter	Day	Topics	Objectives: Students will be able to...	Reading HW: Recommend taking notes. See my website for guided notee template		
2	0 (post test)	2.1 Introduction, Measuring Position: Percentiles, Cumulative Relative Frequency Graphs, Measuring Position: z-scores	<ul style="list-style-type: none"><li>• Use percentiles to locate individual values within distributions of data.</li><li>• Interpret a cumulative relative frequency graph.</li><li>• Find the standardized value (z-score) of an observation.</li></ul> Interpret z-scores in context.	1, 5, 7, 9a-b	Section 2.1 - pgs 83-91	12-Sep
2	1	2.1 Describing Location and Cum. Freq. Plots  <i>Activity - 2.1A Explore Cum. Freq. Plot</i> <i>Activity 2.1B - Intro to Z-Scores and Normal Distribution</i>	<ul style="list-style-type: none"><li>• Describe the effect of adding, subtracting, multiplying by, or dividing by a constant on the shape, center, and spread of a distribution of data.</li><li>• Approximately locate the median (equal-areas point) and the mean (balance point) on a density curve.</li></ul>	11, 13 and finsh activities	Finish Section 2.1	14-Sep
2	2	2.1 Transforming Data, Density Curves  <i>Activity - 2.1C WolfSTAT Company</i>	<ul style="list-style-type: none"><li>• Describe the effect of adding, subtracting, multiplying by, or dividing by a constant on the shape, center, and spread of a distribution of data.</li><li>• Approximately locate the median (equal-areas point) and the mean (balance point) on a density curve.</li></ul>	19, 21, 23, 31, and MC33-38	Section 2.2 - pgs 110-119	18-Sep
2	3	2.2 Normal Distributions, The 68-95-99.7 Rule <i>Activity - 2.2A The Empirical Rule (68-95-99.7)</i> <i>Activity - 2.2 DESMOS - SM2.2 - Back to the Normal Curve</i>	Use the 68–95–99.7 rule to estimate the percent of observations from a Normal distribution that fall in an interval involving points one, two, or three standard deviations on either side of the mean.	Complete Activities	Finish Section 2.2	20-Sep
2	4	2.2 (cont) Normal Distributions, The Standard Normal Distribution  <i>Activity - 2.2B Finding area under a Normal Distributions</i>	<ul style="list-style-type: none"><li>• Use the standard Normal distribution to calculate the proportion of values in a specified interval.</li><li>• Use the standard Normal distribution to determine a z-score from a percentile.</li><li>• Using Table A</li></ul>	Complete Activity PLUS 41, 43, 45, (47& 49 Sketch & Use calc!), 51		22-Sep
2	5	2.2 Normal Distribution Calculations and Assessing Normality  <i>Activity - 2.2C Solving Problems with the Normal Distributions</i>  2.2 NOT COVERED-->Normal Probability Plots on the Calculator	<ul style="list-style-type: none"><li>• Use TI84 to find the percentile of a value from any Normal distribution and the value that corresponds to a given percentile.</li><li>• Make an appropriate graph to determine if a distribution is bell-shaped.</li><li>• Use the 68-95-99.7 rule to assess Normality of a data set.</li><li>• Interpret a Normal probability plot (not on AP exam)</li></ul>	53, 54, 55, 63, MC69-74  Starts Frappy's (read 1st 2 pages)		26-Sep
2	6	<u>Chapter 2 Review</u> <i>Activity - Chapter 2 Review</i> <i>Activity - Frappy's (complete 2 in-class)</i>	<i>Introduction to FRAPPY's -</i> <i>CHAP1: 2005q1 &amp; 2010Bq1(COMPLETE FOR HW)</i> <i>CHAP2: 2006Bq1 &amp; 2008q1(COMPLETE FOR HW)</i>	Complete Chapter 1&2 Frappy's (For each: 12min, score, correct) PLUS TPS CH. 2 AP Practice Test		28-Sep
2	7	Chapter 2 Test		1, 3, 9, 10	Section 3.1	2-Oct