Pearson MyLab Statistics: Triola, Mario F. Elementary Statistics with Integrated Review. 13 edition . Pearson Education, Inc.

Week #	Math 105 Topics	HW Week	MSL Section	Homework Topic	Math 005 Suggested Lesson	Skills Homework		
#1	Course Introduction, Summarizing and Collecting Data	#1	1.1	Analyze sample data relative to context, source, and sampling method.	Benchmark fractions and decimals. Converting between and estimating fractions, decimals, and percents.	*Round Decimals. 2.IR.2,3,4,5,8,10,11 *Write a Fraction in Lowest Terms. 2.IR 12,14,16,17 *Calculate relative frequencies. 2.IR		
	1.1,1.2,1.3		1.2	Distinguish between a parameter and a statistic.				
	Related Video Lessons: Lesson 1, 2, 3				1.4*	Distinguish between observational studies and controlled experiments.		32,34,37,40 *Evaluate expressions and formulas. 3.IR 32,34,36,37
			1.4*	Identify potential problems and/or improvements for a research study.		*Apply operations to fractions. 4.IR 1 ,3, 5 ,6 *Apply operations to decimals. 4.IR		
					causation, explanat	Studies vs. experiments and causation, explanatory, response, confounding variables	*Convert from notation to I notation IR(14,15,16,17 *Convert from Fraction notation to Decimal notation IR(&).2.22
			Explain the process of statistics.	* * s (*Round numbers to a specified decimal place (&) JITR.14. 5 ,6 *Solving Equations using the multiplication principle. & 2.2.19,23, 27 ,29			

#2	Graphing Data, Measures of Center Ch 2, 3.1 Related Video Lessons: Lesson 4, 5	#2	3.1 3.2 3.3	Displaying Data- types of graph Measures of center- mean, median, outliers Mean, median affected by outliers variation	Display data Mean as a balancing point	*Review the skills for graphing. 2.IR 58,59 *Find the average, median, and mode of a set of numbers and solve applied problems. *Draw Bar Graphs. *Extract and interpret data from bar graphs. *Draw line graphs. *Answer questions about the sample and population involved in a given study. *Interpret the results of a survey. *Find and interpret the mean, median, and mode. *Obtain the mean, median, and mode of a data set. *Describe the notation for the sample mean. *Measures of Center
#3	Measures of variation,	#3	3.3	Develop the ability to construct a	Venn Diagrams	Write a fraction in
	relative standing,	ng, boxplot from a set of data.	A = = 1/O = / N = 4	lowest terms 2.IR 13,15		
	outliers 3.1,3.2,3.3		3.3	Identify percentile values and quartile values from a set of data.		Convert between decimals, fractions, and percents 2.IR18,19,20,21,25,26,2 7 Apply operations to fractions 4.IR 8, 9,10 Develop the Ability to construct a boxplot from a set of data. 3.3. 30,32,33,37, RA-4
			3.3	Develop the ability to construct a boxplot from a set of data.		
	Related Video Lessons: Lesson 6		2. 5	Use the values in a five-number-summary to identify and compare distributions.		

			3. 4*	Determine and interpret quartiles and the interquartile range; check a set of data for outliers. Determine and interpret quartiles and the interquartile range; check a set of data for outliers.		Develop the ability to measure the center of data by finding mean, median, mod, 3.1.RA-2, 5,7,10,11,17 Convert from fraction notation to decimal notation (&) IR.2.5,7,8,9 Finding the weighted mean (@) 7.2.13,15 FInding the range and midrange of a data set (@) 7.2.30,32
	0			Find the probability of some	I., , , , , , , , , , , , , , , , , , ,	
#4	Simulation, Poisson and Normal Distributions 6.1,6.2	#4	6.2	range of values in a normal distribution.	Intro to the Normal Curve (What's normal) and Z-scores with the normal	Convert from fraction notation to percent notation.
			6. 3*	Compute probabilities of a Poisson random variable.	Curve	Solve application problems. Construct Venn diagrams. Identify probabilities as
	Related Video Lessons: Lesson 7, 8		6.3*	Find the mean and standard deviation of a Poisson random variable.		values between 0 and 1 that indicate the likelihood of events. List or determine the number of outcomes of an event. Use the basic properties of probabilities. Draw circle graphs. Use the basic properties of probabilities. Determine whether a collection of events is mutually exclusive.

						Obtain a sample standard deviation.
#5	Application of Normal Distribution	#5	6.2	Compute probabilities from the normal distribution	Solve Linear one step Equation,	Apply the order of operations 3.IR.2, 5 ,7, 9
6.2	6.2		6.2	Find x scores corresponding to regions under the curve representing a normal distribution	Solve linear formula with one variable-multi-step/order of operations Alternative: z-scores and the normal curve. Practice finding area.	Evaluate expressions and formulas 3.IR.33,38,39,40,43,46 Find Area 6.IR.1,2,3 Interpret Inequality Notation 6.IR.4,5,6,7 Evaluate formulas for normal probability distributions 6.IR.8,9,10,11,12,13,14, 15
	Related Video Lessons: Lesson 9, 10		6.2	Find probability of a range in a normal distribution		
	20000110		6.2	Solve application problems involving probabilities and corresponding x scores from the normal distribution		
						Review due Monday
#6	Exam 1, Association Rules Ch. 4	Rules between 0 and 1 that indicate the likelihood of events. sign	4.1	between 0 and 1 that indicate the	MnM's Activity introduction to statistical significance, sampling variability, confidence	Review due beginning of this week (9/28)
			4.1	Calculate the probability of a simple		

				event using the relative frequency method.		
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			4.1	Determine the odds of an event.		
			4.2	Define the complement of an event and calculate the probability of that complement.		
			4.2	Apply the multiplication rule by adjusting for events that are not independent.		
			4.2	Distinguish between independent events and dependent events.		
			4.2	Apply the addition rule by correctly adjusting for events that are not disjoint (overlapping).		
#7	Sampling Distributions, Estimating a Population Proportion 6.3,6.5,7.1	#7	7.1	Construct and interpret a confidence interval estimate of a population proportion.	No Activity Suggestion: Deconstruct confidence Intervals and	*Apply operations to fractions. *Evaluate factorials. *Evaluate nPr and nCr.
	Related Video Lessons: Lesson 13		7.2	Construct and interpret a confidence interval estimate of a population mean.	identify parameters	*Determine the intersection, union, and complement of two sets.
#8	Estimating a Proportion, Estimating a Population Mean 7.1,2	#7		Continue Week 7 Homework	Tea Lady: Introduction to the ideas behind confidence testing.	*Find the middle value for an interval given in either interval notation or as an inequality. *Find the distance from the middle value of an interval
	Related Video Lessons:					to its endpoints. *Write and interpret three

	Lesson 14, 15					different forms of intervals (as used for confidence intervals). *Evaluate formulas used for confidence intervals.
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# 9	Intro to Hypothesis testing, Hypothesis	#9	8.1	Understand concepts related to hypothesis testing	Algebraic Reasoning	Evaluate formulas for hypothesis testing. 8.IR.1,2
	testing for a proportion 8.1,8.2 Related Video Lessons: Lesson 16, 17, 18		8.2	Hypothesis Test- proportions	Alternative: Hypothesis Testing Practice for proportion	(x2) Identify the null and alternative hypothesis 8.1.5 (x2) Make subjective conclusions about claims 8.1.9,11 Understand the concepts related to hypothesis testing 8.1. 33, RA-2, 3,4 Identify and Interpret Values given in technology displays 8.2.5,7 Basics of Hypothesis Texting CQL.10.1,2,3,15,25,29,36
#10	Hypothesis Test for a Mean 8.3	#10	8.1	Understand concepts related to hypothesis testing	No Lesson: Bridge algebraic reasoning and linear functions	Use sample data to conduct a formal hypothesis test of a claim made about a
	0.5		8.2	Hypothesis Test- proportions	linear functions	population mean.
	Related Video Lessons: Lesson 19		8.3	Hypothesis Test- means	Alternative: Hypothesis Testing Practice for mean	Hypothesis Tests for a Mean (Sigma Known) Perform a significance test about a proportion.
				Connecting Hypothesis testing and confidence	Perform a significance test about a mean.	

					intervals	Test 2 Review
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#11	Exam 2, Hypothesis test for 2 proportions 9.2 Related Video Lessons: Lesson 20	None		Exam #2	No Lesson: Solving Inequalities	Review due beginning of this week (11/2)
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#12	Hypothesis test for 2 Means 9.2	#12	9.1	Confidence Intervals- difference between two proportions	Solve a linear formula with two variables	Evaluate formulas for two sample hypothesis testing.
	Related Video Lessons: Lesson 21		9.2	Hypothesis Testing - two proportions		
						•
#13	Two-way tables, Chi-square tests of independence 11.3 Related Video Lessons: Lesson 22	#13	11.3	Perform Chi-square test of independence	Two Way tables	Find and Interpret Slope 10.IR.1,5,6,7,8,9,10,12, 13 Find and Interpret the y-intercept of a line 10.IR. 27,29,31,33 Find Values from a Linear Equation or Graph 10.IR.34,35,36,37,40 Graph a Linear Equation 10.IR.41,43,45,48,50

#14	Linear Regression 10.1,2	#14	7.1	Use and interpret scatterplots, association, & correlation	Linear Regression	Find and Interpret Slope 10.IR.14,15,19,20,21,22 ,23,24,25,26 Find Values from a Linear Equation or
	Related Video Lessons: Lesson 23, 24		8.1	Find & interpret slope, intercept, and equation		
			8.1	Write & interpret a linear regression equation		Graph 10.IR. 38,39 Graph a Linear Equation
			4.3	Interpret or setup a regression equation and/or scatterplot		10.IR. 46 Find and Interpret a linear model (y=mx+b and yhat=b0+b1x) 10.IR.51,53, 55,57 ,60, 63 ,66, 69 ,73, 76
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#15 (dead)	Linear Regression #19	#15	7.1	Use linear regression models to estimate values	Support and Review for Aleks and 105 Final	Review due Monday (12/14)
			7.1	Analyze & interpret residuals		
			7.1	Find and/or interpret slope, intercept, or linear regression model		
			7.1	Find, interpret, and/or use correlation or correlation squared		
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#16 (final)				Final	No Meeting	
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