

Math 1040-04 Final Exam Review **Part I**

Dec 11 (Tues)	<b>Final</b> 3pm-4:50pm in Sc 129	Note: You may not take the final at any other time than when your section is scheduled without instructor consent and payment of a fee to the cashier's.
Dec 19	Grades posted at least by today	

About the test: No notes. Calculators are allowed, but storing notes, etc. on them is cheating. You may not use a cell phone. No iPods or similar devices. A significant portion of the exam will be chapters 9-11. The rest will be cumulative.

The grading scale is non-negotiable, no matter how desperate you are for a better grade. Grades are based on performance, not need. I hope you pass, but if you don't, I encourage you to retake the class right away while the material is fresh in your mind.

A	93%-100%	B-	80%-82%	D+	67%-69%
A-	90%-92%	C+	77%-79%	D	63%-66%
B+	87%-89%	C	73%-76%	D-	55%-62%
B	83%-86%	C-	70%-72%	F	0%-54%

I will be out of town Monday, Dec 10 through Wednesday, Dec 12, and I'll leave Thursday afternoon and be gone until January. Please email me if you need to contact me.

Things to know:

- look at the way problems are worded for clues to what situation you have and how to solve the problem
- given a scatter plot, classify the type of regression (pg 458)
- interpret a correlation coefficient
- t-test for correlation coefficient (formula pg 466 provided)
- correlation vs causation (pg 468)
- given a regression line, make applicable predictions
- interpret coefficient of determination
- what multiple regression is used for
- calculate expected frequencies (memorize how to do this)
- chi-square goodness-of-fit test (formula pg 512 provided)
- chi-square independence test (formula pg 523 provided)
- calculate expected frequencies for a contingency table (formula pg 521 provided)
- comparing variances (formula pg 536 provided)
- what ANOVA is used for
- what a nonparametric test is used for
- sign test for population mean (formula pg 567 provided)
- paired-sample sign test
- match data collection methods (1.3)
- match sampling techniques (1.3)
- interpreting graphs (2.1,2.2)
- mean, median, mode, range, quartiles (memorize how to find these)
- find population and sample standard deviation (formulas provided, but calculator is faster)
- interpret standard deviation
- empirical rule (memorize)
- interpret percentiles
- find z-scores (formula provided)
- to be continued in part II

Practice problems: (not to turn in)

- 9.1: 1,5-8, Example 7
- 9.2: 13cd
- 9.3: 1-5
- 10.1: 3,7
- 10.2: 5
- 10.3: 3,15
- 11.1: 1,5,13,17
- 1.3: 9-17 odds
- 2.1: 13bc,15,17,19b,21
- 2.2: 7,9
- 2.3: 15a
- 2.4: 1,3,5,14
- 2.5: 5,11,27,33,34
- to be continued in part II

I'll post the formula sheet you'll be provided with on the course website (not WebCT) by Friday evening.

Good luck! Get your sleep.