

## Math 1040-04 Chapters 7 and 8 Test Review

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.

Things to know:

- matching: hypothesis test (pg 332), types of errors (pg 335),  $\alpha$  and  $\beta$  (pg 337), P-value (pg 337)
- finding the null and alternative hypotheses
- which tailed test to use (pg 338)
- finding the rejection region
- finding critical values
- hypothesis testing for the mean, large samples, using P-values
- hypothesis testing for the mean, small samples, using rejection regions
- hypothesis testing for proportions using rejection regions
- hypothesis testing for variance and standard deviation using rejection regions
- testing the difference between means, large and small samples, independent and dependent
- testing the difference between proportions
- look at the way problems are worded for clues to what situation you have and how to solve the problem

Practice problems: (not to turn in)

- 7.1: 2,9,11,19,21,23,25,27
- 7.2: 1,5,13,15,19,33,39
- 7.3: 1,3,5,7,23,27,37
- 7.4: 2,11,13
- 7.5: 3,5,7,15,17
- 8.1: 11,13
- 8.2: 3,5,7,15,19
- 8.3: 25
- 8.4: 9,13

Provided on formula sheet:

- usual tables from the back of the book
- P-value decision rule (pg 340)
- interpretation table (pg 340)
- finding P-Value (pg 347)
- z-test for mean formula (pg 349)
- t-test for mean formula (pg 366)
- z-test for proportions formula (pg 374)
- $\chi$ -squared formula (pg 382)
- 2-sample z test formula (pg 406)
- 2-sample t test formulas (pg 416)
- flow chart pg 417
- t formula and  $s_d$  (pg 427) memorize  $\bar{d}$
- z and  $\bar{p}$  (pg 438)

I'll post the formula sheet you'll be provided with on the course website (not WebCT) by Tuesday evening. Good luck! Get your sleep.