## Math 50 - Test #3 Study Guide

Section 18, Fall 2012, Prof. Beydler

## Test #3

- Date: Wednesday, November 28, 2012
- Will cover sections 5.1-5.8, 6.1-6.6, and 7.1-7.2.
- You'll have the entire class time to take the test. When you're finished, you can hand it in and leave.
- No notes or books.
- The first part of the test you will not have a calculator.
- When you're finished with the first part, turn it in and I'll give you the second part, where you can use a scientific or four-function calculator. Graphing calculators and mixed-use devices will not be permitted (so, no using cell phones, laptop computers, etc. as calculators). If you do not have a scientific or four-function calculator, you may borrow one from the MARC if you have a student identification card.
- Please visit my office hours if you need help. If you don't understand something, don't be embarrassed to stop by—I'm very patient. If you can't make it to my office hours, then feel free to e-mail me with any questions: <a href="mailto:dbeydler@mtsac.edu">dbeydler@mtsac.edu</a> Also, don't forget to visit the MARC and get extra credit for doing so! (see syllabus for details)

Here are some of the formulas you'll want to know:

- Area of a triangle:  $A = \frac{1}{2}bh$
- Circumference of a circle:  $C = \pi d$  or  $C = 2\pi r$
- Area of a circle:  $A = \pi r^2$
- How to calculate mean and median
- Complementary angles: angles that add up to 90°
- Supplementary angles: angles that add up to 180°
- Pythagorean Theorem:  $a^2 + b^2 = c^2$
- GPA =  $\frac{\text{total grade points}}{\text{total credits}}$

## **Extra Credit!**

- If you write up the answers to all of the review exercises listed below, and hand them in at the test, you can earn up to 2% extra credit towards the test (depending on neatness and completeness)!
- Review exercises:
  - o Chapter 5 (p.358) #1-61 odd, 67
  - o Chapter 6 (p.448) #1-47 odd, 57, 59, 60, 62
  - o Chapter 7 (p.516) #1, 5-15 odd

## Vocabulary

fraction (5.1)

A few problems on the test will be about vocabulary words you have learned. They'll be in the "fill-in-the-blank" style just like the notes. Here are the words you'll want to know for that part of the test:

least common denominator (LCD) (5.5)

rational expression (5.2)

rational number (5.1) equivalent fractions (5.1) improper fraction (5.1) mixed number (5.1) lowest terms (5.2)	radius (5.3) diameter (5.3) circumference (5.3) reciprocals (5.4) least common multiple (LCM) (5.5)	scientific notation (6.3) irrational number (6.4) ratio (7.1) probability (7.1) unit ratio (7.1) proportion (7.2)
And here are the possible sente	nces you'll see on the test (each word above	will fill in one blank below):
A polynomial over a polynomial is c	alled a	_ <del>-</del>
The distance across a circle through	the center is called the	
A number where the decimal part o	does not terminate or repeat is called an	
The distance around a circle is calle	d the	
Two numbers that multiply to 1 are	called	
The	of two numbers is the smallest number	that is a multiple of both the original numbers.
10 multiplied by a power of 10.	a convenient way to write really big or really small numerator is bigger than or equal to the absolute	
An equation in the form $\frac{a}{b} = \frac{c}{d}$ is ca	lled a if the GCF of its numerator and denominator is	1.
A number that describes a part of a	whole is called a	
A is a numbe	er from 0 to 1 that represents the chances that sor	nething will happen.
A fraction whose numerator and de	enominator are integers is called a	
When two fractions name the same	e number (ex: $\frac{1}{3}$ , $\frac{2}{6}$ , and $\frac{4}{12}$ ), we call them	
The distance from the center to any	point on the circle is called the	
An integer combined with a fraction	n is called a	
The LCM of denominators is called	the	
A comparison between two quantit	ies using a quotient is called a	
A ratio in which the denominator is	1 is called a	