Math 46, Wtr 08
Updated final exam study guide

20 multiple choice questions (bring Scantron):

(1) Egyptian fractions and division of circles
(2) Measurement using proportions (as in problem about tree height)
(3) Alternative multiplication/ addition methods, e.g. Russian Peasant multiplication
(4) Pigeonhole principle problem
(5) Extending patterns throughout the plane, as on first day of class
(6) Using divisibility rules
(7) Ancient mathematical systems
(8) Changing to and from base ten
(9) Venn diagrams and counting numbers of elements
(10) Expressing fractions as decimals
(11) Addition algorithm problem, as in take-home "cryptarithm" problem
(12) History of mathematics and mathematical sequences question
(13) Greatest common divisor, least common multiple, and factors of numbers
(14) Converting decimals to fractions and vice versa
(15) How to use manipulatives to teach simple calculations
(16) Modular arithmetic calculations
(17) Rules for mathematical systems, like commutativity, closure, etc.
(18) Calculating numbers of elements in unions, intersections, complements of sets
(19) Logic problem like Fido or Arc, Barc, and Carc.
(20) Converting to and understanding meaning of percents.

Show work problems:
(21)-(23) Alternative explanations for fraction calculations and comparisons

Essay question: see web site.