Math 20043 Review for Exam 2, Chapters 3 & 4

•There will be approximately 16 problems on Exam Two.

•Definitions and properties will be tested using true/false or **uneven** matching questions (see next page). In some cases you may be asked to give an example (if true) or a counterexample (if false).

•Make sure to **show all required work!** No unsupported answers will be accepted!

•When asked to **demonstrate,** make sure to show **every** step, as if you were working the problem out for your student.

SUGGESTIONS FOR PREPARING FOR EXAM

Work through the recommended problems in the Chapter Reviews and rework lecture examples. Use this to determine the topics upon which you should concentrate. You may wish at that time to rework homework problems over those specific topics. Working with a serious study group is often helpful. **MAKE SURE** that you get a decent night's **sleep**, and **eat** something before your exam – it is very difficult to make good decisions when short on sleep and with no fuel for your brain!

Topics covered

Ch. 3: Definitions & notation; Roman, Mayan, and Hindu-Arabic numeration systems; rounding; addition properties & algorithms; estimation; subtraction properties & algorithms; inequalities; multiplication properties & algorithms; division properties & algorithms; division involving zero; order of operations.

Ch. 4: Definitions & notation; Divisibility Criteria for 2, 3, 4, 5, 6, 9, & 10; prime numbers; composite numbers; prime factorization; Fundamental Theorem of Arithmetic.

UNEVEN MATCHING

Uneven matching: match the definition or example to the appropriate term for the set of **whole numbers**. NOTE: terms on the right are in alphabetical order

_____ **(a)** 3 - 6 = -3

_____ **(b)** 9 + 6 = 15

_____ **(c)** 7 (1) = 7

_____ **(d)** 9 + 6 = 15

A. Addend

B. Additive Identity

C. Multiplicative Identity

D. Subtraction does not have closure

E. Sum