

Math 306
Study Guide for Test 3 over Chapters 8-11

Written Test:

- Apply proportional models and nonproportional models to represent problems. (Chap 8)
- Describe the recommended process for helping children learn basic facts (Chap 9)
- Give examples of the Mathematical Properties of addition and multiplication (Chapter 9)
- Basic facts rely upon what relationships? (Chapter 9)
& Describe how thinking strategies can be used for $+$, $-$, \times , \div Facts (Chapter 9)
- Apply the six strategies of whole number of addition. (Chapter 10)
- Write two of your own questions involving computational methods for a given problem (Chap 10)
- Apply at least two algorithms to solve computational problems for each operation. (Chap 11)
- Use a calculator to determine the remainder in a division problem in at least two ways (Chap 11)
- Identify Error Patterns in student work and describe appropriate instruction (GN)
- Apply divisibility tests to determine how a number can be split up into its factors. (GN)

Verbal part (a classmate will record your approach/directions)

- Illustrate how models can be used to represent problems with operations. (Chap 9)
- Use appropriate estimation strategies (Chap 9)
- Use appropriate estimation strategies for a variety of data sets (Chap 10)
- Ask questions for each level in the decisions flow chart to help your partner through computational decisions. (Chap 10)
- Verbally explain how to complete a problem with two different algorithms (Chap 11)