

Test Review Stuff

1. Problem Solving
2. Sets
 - (a) As a basis for whole numbers
 - (b) Set builder notation
 - (c) One to one correspondence, equivalence of sets
 - (d) Subsets, element of
 - (e) Operations on sets: \cap , \cup , complement, difference, \times
 - (f) Whole numbers using sets: ordering, adding, subtracting, multiplication
3. Properties of numbers and operations: closure, commutivity, associativity, distributivity, identity, inverses
4. Exploding dots: bases, place value
5. Mathematical notation: \mathbb{N} , \mathbb{Z} , \mathbb{Q} , \mathbb{R} , \exists , \subset , \in , set builder
6. Division algorithm
7. Algorithms for operations: addition, subtraction, multiplication, long division
8. Exponents
9. Prime numbers
10. RSA Encryption
11. Modular arithmetic
12. Factors, greatest common divisor, least common multiple
13. Study Suggestions
 - (a) Be sure to be able to perform all computations (bases, operations in different bases, division algorithm, factoring, modular arithmetic, gcd, etc.).
 - (b) Look through the homework assigned (both due and not due).
 - (c) Look through the Chapter Tests in the textbook. Be sure to understand all the True/False questions.