

Name: _____

Test 2
Apportionment and Number Theory
A&S 100
Fall 2002

Assignment #9:

1. Read §8.1 *Divisibility and Primes* in your text.

Assignment #10:

1. §8.1 *Divisibility and Primes* §8.1 #4, 6, 8, 10, 12, 16, 24, 28, 42, 44, 54, 61–65.
2. §8.1 *Divisibility and Primes*
Do numbers 52, 56, and 58 in two different ways.
 - (a) Using prime factorizations.
 - (b) Using the Euclidean Algorithm.
3. Read §8.2 *Modular Arithmetic* in your text.

Assignment #11:

1. §8.2 *Modular Arithmetic* §8.2 #28–44 (evens), 45, 46
2. Read §8.3 *Divisibility Tests* in your text.

Assignment #12:

1. §8.3 *Divisibility Tests* §8.3 #4, 12, 16, 20, 21, 22, 24, 26, 27.
2. Writing Assignment E.
3. Read §8.4 *Check Digits* in your text.

Assignment #13:

1. §8.4 *Check Digits* §8.4 #2–26 (evens).

Assignment #14:

1. Read §7.1 *Polygons* in your text.

Writing Assignment E:

1. Prove the divisibility test for 3.
2. Prove the divisibility test for 6.