#### Prof. Sundstrom

## Writing Assignment #2 (75 points) Due: Thursday April 10, 2003

#### **Purposes of the Assignment**

- Writing to learn mathematics.
- Gain experience in communicating mathematics.
- Demonstrate knowledge of the apportionment methods we have studied in class.
- Demonstrate the ability to use the apportionment methods we have studied in class.

### **Grading of the Assignment**

In grading this assignment, three aspects of your work will be emphasized.

- **Mathematics:** You will need to show that you understand the mathematics involved in the assignment.
- **Context:** You need to clearly explain the situation you are using for this assignment. You will clearly have to explain the apportionment methods used.
- **Conventions:** Correct spelling, grammar, and mathematical notation are expected. You are encouraged to have a friend read a draft of the paper.

A tentative evaluation form is included at the end of this assignment.

# Writing Assignment #2 (75 points) Due: Thursday April 10, 2003

### The Assignment

Following is the population data for each state for the 1800 census.

State	Population		
Virginia	747,362		
Pennsylvania	601,863		
New York	577,805		
Massachusetts	574,564		
North Carolina	424,785		
Maryland	306,610		
South Carolina	287,131		
Connecticut	250,622		

State	Population		
New Jersey	206,181		
Kentucky	204,822		
New Hampshire	183,855		
Vermont	154,465		
Georgia	138,855		
Tennessee	100,169		
Rhode Island	69,970		
Delaware	61,812		

The size of the United States House of Representatives in 1800 was 141.

Your task is to apportion the 141 seats for the House of Representatives using Hamilton's Method, Jefferson's Method, Webster's Method, and the Huntington-Hill Method.

Your report must also include the following:

- The standard quota for each state.
- A complete description of the procedure used for each of the apportionment methods.
- The computations used to determine the apportionment of at least two different states using Hamilton's method.
- The computations used to determine the apportionment of at least two different states using Jefferson's method.
- The computations used to determine the apportionment of at least two different states using Webster's method.
- The computations used to determine the apportionment of at least two different states using the Huntington-Hill method.

# Writing Assignment #2 (75 points) Due: Thursday April 10, 2003

### **Possible Evaluation Form**

Ideas	and Content	Weak	Strong
•	Overall situation described correctly		
•	Correctly tells the "story" of the election.		
•	Complete and correct mathematical details		
•	Equations and mathematical constructions correct		
Style a	and Organization		
•	Unique/individual introduction that makes you want to read the paper		
•	Interesting presentation		
•	Addresses all parts of the assignment		
•	Includes enough details and examples		
Conve	entions		
•	Free of grammatical errors		
•	Free of spelling and punctuation mistakes		