



Key

11. Anne, Dave, and Jay are heirs to an estate that includes a computer, a used car, a stereo, and \$6,000. The will states that Anne is to receive 25%, Dave receives 35%, and Jay receives 40%. Each heir has submitted bids for the items in the estate as summarized in the following table.

	Anne	Dave	Jay
Computer	\$1,800	\$1,500	\$1,650
Car	\$2,600	\$2,400	\$2,000
Stereo	\$1,000	\$800	\$1,200

Determine the properties that each person receives and the final amount of cash that he or she receives or pays.

	Anne	Dave	Jay
Total of Bids & Cash	11,400	10,700	10,850
Fair Share	2,850	3,745	4,340
Items Received	computer, car	—	stereo
Values of Items Received	4,400	—	1,200
Initial Cash Received	-1,550	3,745	3,140
Share of Remaining Cash	166.25	232.75	266
Final Settlement	owes 1,383.75	3,977.75	3,406

12. States A, B, C, and D have populations of 647, 247, 106, and 360 respectively. There are 85 seats to be apportioned among them.

- What is the ideal ratio?
- What is the tentative apportionment by the methods of Hamilton, Jefferson, Webster, Hill-Huntington?  
(Fill in the chart below).

**Tentative Apportionment**

**Final Apportionment**

State Population	Quota	Hamilton	Jefferson	Webster	Geometric Mean	Hill-Huntington	Hamilton	Jefferson	Webster	Hill-Huntington
A 647	40.43	40	40*	40	40.496	↓ 40	40	41	40	40
B 247	15.43	15	15	15	15.49	↓ 15	15	15	15	15
C 106	6.62	6*	6	7	6.48	↑ 7	7	6	7	7
D 360	22.5	22*	22*	23	22.49	↑ 23	23	23	23	23
Total Seats Awarded		83	83	85		85	85	85	85	85

c. Find the Jefferson Adjusted Ratios for each state, if needed.

A: 15.7      B: 15.4      C: 15.1      D: 15.6

d. Find the Webster Adjusted Ratios for each state.

A: \_\_\_\_\_ B: \_\_\_\_\_ C: \_\_\_\_\_ D: \_\_\_\_\_

e. Find the Hill-Huntington Adjusted Ratios for each state.

A: \_\_\_\_\_ B: \_\_\_\_\_ C: name D: \_\_\_\_\_

f. State the final apportionment for each state in the table above.