MA 110 Quiz 6 ANSWERS

[2]

The legislature of a country has 150 seats to be apportioned among four states A, B, C, and D, in proportion to their populations. The table below shows the populations of the states. Complete the table by filling in all **unshaded** blanks in order to produce each of the apportionments indicated: Webster's, Jefferson's, and Adams'. [Hints: You need to find the total population in order to find the standard divisor. You may have to do some trial and error scratch work on the reverse in order to determine the appropriate modified divisor and modified quotas. Be sure to transfer your work to be graded to this page.]

State	А	В	С	D	Total	Points
Population	11,481	7,940	3,169	1,410	24,000	
Standard Divisor	160					1
Standard Quotas	71.756	49.625	19.806	8.813	150.00	
Modified Divisor	158	157.3 to 158.4				
Modified Quota	72.665	50.253	20.057	8.924		2
Jefferson App't	72	50	20	8	150	
Modified Divisor	162	161.8 to 162.0				
Modified Quota	70.870	49.012	19.562	8.704		2
Adams App't	71	50	20	9	150	
Modified Divisor	160.5	160.41 to 160.57				
Modified Quota	71.533	49.470	19.745	8.785		2
Webster App't	72	49	20	9	150	

Did any of the apportionments above violate the Quota Rule? If so, indicate which apportionment, which state, and whether the upper quota or the lower quota was violated.

No violations of the quota rule.

[1]

State	А	В	С	D	Total
Population	11,481	7,940	3,169	1,410	
Standard Divisor					
Standard Quotas					
Modified Divisor					
Modified Quota					
? App't					
Modified Divisor					
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