APPORTIONMENT HOMEWORK

TEXT: 11.3, 11.4, 11.5

LAST NAME	FIRST NAME	DATE

One of the fairness criteria, the **Quota Rule**, stipulates that the number of representatives apportioned to a state should be the standard quota or one more than the standard quota.

In the following exercises, we show how the Quota Rule is violated by the Jefferson method in a fictional setting. Suppose we want to apportion **100** seats among the states A, B, and C:

State	**A**	**B**	**C**
Population	98	689	212
Quotient			
Standard Quota			

1. Find the standard divisor.

2. Find the quotient and standard quota for each region and fill out the table above.

3. Find a **modified standard divisor** for the Jefferson method and use the Jefferson method to apportion the inspectors. Finding a correct modified divisor can take many tries, so below you will find a grid where you can compute the quotients for different values of the divisor. Do no allocate the resource until you find the quotients that add up to the correct total.

State	**A**	**B**	**C**	**MSD**
Population	98	689	212	
Quotient				
Quotient				
Quotient				
Quotient				
Quotient				
# Of Seats				

A hospital district consists of five hospitals. The district administrators have decided that **48** new nurses should be apportioned based on the number of beds in each hospital:

Hospital	**Sharp**	**Palomar**	**Tri-City**	**Del Raye**	**Rancho Verde**
# Of Beds	242	356	308	190	275
Quotient					
Standard Quota					
# Of Nurses					

4. Find the standard divisor.

5. Find the quotient and standard quota for each region, fill out the table above.

6. Use the Hamilton method to apportion the inspectors, fill out the table above.

7. Use the table below to find a **modified standard divisor** for the Jefferson method and use the Jefferson method to apportion the inspectors.

Hospital	**Sharp**	**Palomar**	**Tri-City**	**Del Raye**	**Rancho Verde**	**MSD**
# Of Beds	242	356	308	190	275	
Quotient						
Quotient						
Quotient						
Quotient						
Quotient						
# Of Nurses						

Answers

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