

APPORTIONMENT

TEXT: 11.3, 11.4, 11.5

LAST NAME	FIRST NAME	DATE
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1 (10 points). A city apportions 34 building inspectors among three regions according to their populations. The following table shows the present population for each region.

Region	Midtown	East	South	Total
Population	15008	3424	30109	
Quotient				
Standard Quota				
# Of Inspectors				

- Find the standard divisor:
- Find the quotient and standard quota for each region.
- Use the Hamilton method to apportion the inspectors.

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- 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 not allocate the resource until you find the quotients that add up to the correct total.

Region	Midtown	East	South	MSD
Population	15008	3424	30109	
Quotient				
Quotient				
Quotient				
Quotient				
Quotient				
# Of Inspectors				

The **Alabama paradox** was the first of the apportionment paradoxes to be discovered. The US House of Representatives is constitutionally required to allocate seats based on population counts, which are required every 10 years. The size of the House is set by statute.

After the 1880 census, C. W. Seaton, chief clerk of the United States Census Bureau, computed apportionments for all House sizes between 275 and 350, and discovered that Alabama would get eight seats with a House size of 299 but only seven with a House size of 300.

In the following examples, we re-create the paradox by apportioning 10 and then 11 seats in a fictional setting.

2 (2 points). Apportioning **10** seats:

State	A	B	C
Population	6000	6000	2000
Quotient			
Standard Quota			
# Of Seats			

- Find the standard divisor:
- Find the quotient and standard quota for each region.
- Use the Hamilton method to apportion the inspectors.

3 (2 points). Apportioning **11** seats:

State	A	B	C
Population	6000	6000	2000
Quotient			
Standard Quota			
# Of Seats			

- Find the standard divisor:
- Find the quotient and standard quota for each region.
- Use the Hamilton method to apportion the inspectors.