

Instructions: Show all work.

1. Below is a table with population data. We need to apportion 75 seats among the districts. Use Jefferson's method. Calculate the standard divisor, and then choose one of the suggested modified divisors to complete the apportionment.

State	Population	Standard Quota	LQ	Modified Quota	Final Apportionment
Freeday	33,567	24.8049	24	25.05	25
Gallilipp	45,921	33.9341	33	34.269	34
Heaven	22,005	16.2609	16	16.4216	16
Total	101,493		73		75

Standard Divisor: 1353.24

Suggested Modified Divisors. Choose from: 1350, 1340, 1380, 75.1.

2. For the same data, complete the table for the Huntington-Hill Method.

State	Population	Standard Quota	LQ	UQ	$\sqrt{LQ \cdot UQ}$	Final Apportionment
Freeday	33,567	24.8049	24 + 1	25	24.4948	25
Gallilipp	45,921	33.9341	33 + 1	34	33.4962	34
Heaven	22,005	16.2609	16	17	16.4924	16
Total	101,493		73	76		75

Standard Divisor: 1353.24

Suggested Modified Divisors. Choose from: 1350, 1340, 1380, 75.1.