

Hill's Method (1911) (Divisor Method – really!)

- Choose the size of the House to be apportioned.
- Give to each state a number of seats so that no transfer of any one seat between two states can reduce the percentage difference in representation between those two states.

Example: Recall Hamilton's apportionment for Small Nation with house size 55 from last Tuesday

State	Population	Hamilton Apportionment	Pop per rep
A	13,000	19	684.2
B	15,000	22	681.8
C	4,000	6	666.6
D	6,000	8	750

Would Hill's Method swap a seat between

1. States A and C?
2. States B and D?

Recall our Small Nation

State	Population
A	13,000
B	15,000
C	4,000
D	6,000

1. Use a divisor of $x = 700$ and cut points of the geometric mean to apportion the seats to the four states.
2. Verify that this apportionment is Hill's apportionment.