

## Cambridge City Council (Plan E) Voting Method

1. In a recent election for the nine at-large seats on the Cambridge City Council, there were 16,070 voters. Calculate the quota.
2. The #1 votes for the top nine candidates were as follows. Was anyone elected on the first count? Explain clearly!

Galluccio, Anthony D.	2001
Sullivan, Michael A.	1464
Decker, Marjorie C.	1524
Toomey, Timothy J.	1432
Davis, Henrietta	1459
Simmons, Denise	1330
Murphy, Brian	1236
Reeves, Kenneth E.	1207
Kelley, Craig A.	1042

3. The next seven candidates got between 100 and 1000 votes each (on the first count). Then, after them, came Robert Lee Hall with 75 votes, and finally James E. Condit with 42. So, was anyone eliminated in the first count, and how many votes got redistributed from each candidate (including those elected, those eliminated, and those who went on to later counts)? Be specific, and explain your reasoning.
4. Sullivan got elected in the sixth count. How many votes must he have picked up between the first and sixth counts?
5. Decker and Davis got elected in the ninth count. How many votes must each of them have picked up between the first and ninth counts?
6. Toomey, Murphy, and Simmons all got elected in the tenth count. Kelley and Reeves were elected in the eleventh. Which of the final nine, if any, were not in the original top nine?