

Name: _____

Suppose that there is a group of 21 people who need to select a president for their group. There are four candidates: Ann (A), Bob (B), Charles (C) and Debbie (D). The (true) preferences of the group are given below (the voters rank the candidates from best to worst).

# voters	3	5	7	6
best	A	A	B	C
↑	B	C	D	B
↑	C	B	C	D
worst	D	D	A	A

So, for example, there are 5 people that strictly prefer Ann over Charles, they strictly prefer Charles over Bob and strictly prefer Bob over Debbie. Suppose you are given this data (as an impartial observer) and are asked to choose the candidate that *best reflects the will of the people*. Which candidate would you choose, and why? For each of the questions below, answer ‘yes’ or ‘no’ and *provide a short explanation of your answer in the box provided*. (I am not looking for a detailed answer here, just your first intuitions.)

- Should candidate A be declared the winner?

- Should candidate B be declared the winner?

- Should candidate C be declared the winner?

- Should candidate D be declared the winner?

What is the last mathematics course that you have taken?