# Worksheet #2
## August 24, 2018
## 2 Points

Everyone in the group should print their names. Then circle one name for the personal responsible for submitting the worksheet.

Name: _Solutions_

Name: _____

Name: _____

Below is a preference schedule giving the voter preferences in an election with four candidates, $A$, $B$, $C$, and $D$.

| Number of Voters | 13 | 12 | 6 | 3 |
|---|---|---|---|---|
| 1st choice | B | D | A | D |
| 2nd choice | C | A | C | C |
| 3rd choice | A | C | B | B |
| 4th choice | D | B | D | A |

1. Who will win this election using the Plurality Method?

   D ⟶ MOST FIRST PLACE VOTES

2. What is the least number of first place votes candidate must receive in order to be a Majority Candidate? Is there a Majority Candidate in this example?

   18 , no

   # VOTERS = 13+12+6+3 = 34

   34/2 = 17

   NEED MORE THAN 17 VOTES

3. Use the Borda Method. How many points does each candidate receive?

   (a) A — $26 + 36 + 24 + 3 = 89$
   (b) B — $52 + 12 + 12 + 6 = 82$
   (c) C — $39 + 24 + 18 + 9 = 90$
   (d) D — $13 + 48 + 6 + 12 = 79$

4. Who will win this election using the Borda Method?

   C