Voting Procedures

There	are five	different	procedures	to determin	e the v	winner in	an election.
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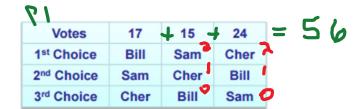
Plurality ballot: whoever gets the most 1st choice votes is the winner

majority ballot ... : whoever gets more than 50% of the 1st choice votes is the winner

Borda's Method: whoever gets the most points is the winner

Condorcet's Criter! whoever beats all opponents in a head to head comparison

winner can be determined with a majority ballot, the same candidate will win using an elimination ballot. If a winner cannot be determined by majority ballot, candidates are eliminated one by one until a winner is determined by receiving more than 50% of the 1st choice votes.



Example 1: Plurality ballot:

Bill: 1st choice votes

Sam: 15 1st choice votes

Cher: 1st choice votes

wins because She has the MOST 1st Choice votes.

= 42.85= 43%evotes.

Example 2: Majority vote:

Using the same example...Cher has $\frac{24}{}$ votes which is $\frac{43}{}$ % of the vote, so she $\frac{10365}{}$ by majority ballot.

Example 3: Borda's Method:

Using the same example...1st choice (2 pts), 2nd choice (1 pts), 3rd choice (0 pts)

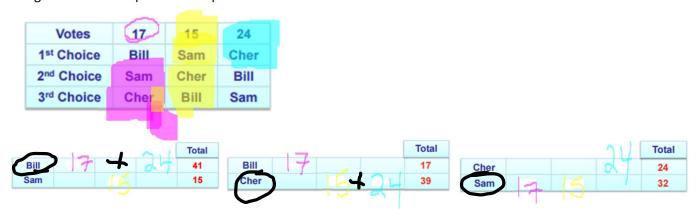
Sam:
$$17(2) + 15(0) + 24(1) = 58$$

Cher: $17(0) + 15(1) + 24(2) = 47$

 $\frac{1}{2}$ is the winner using Borda's method because $\frac{1}{2}$ has the most points.

Example 4: Condorcet's Criterion:

Using the same example...we compare the candidates head to head.



Bill wins with 41 votes over Sam.

Cher wins with 39 votes over Bill.

Sam wins with 32 votes over Cher.

In this case, there is _____

To win: someone would have had to beat all the others in each comparison.

Example 5: Elimination Ballot:

Using the same example...

In this example we know that a majority ballot did not determine a winner so, we eliminate the candidate with the fewest number of the first choice votes, Sam.

Votes	17	15	24
1st Choice	Bill	Sam	Cher
2 nd Choice	Sam	Cher	Bill
3 rd Choice	Cher	Bill	Sam

Our table now changes to:

Cher wins with
$$39 \times 100 = 70\%$$
 of the vote.

Bill
$$\frac{17}{56}$$
 = 39 x100 = 70%

Do MHS Worksheet "Voting Procedures" # 1-10