## Review Worksheet (1.1 - 1.3)

1. Consider the following preference schedules for an election represented by the table below

First choice	С	•B	Α	-
Second choice	-	С	•	Α
Third choice	<b>₽</b> B	·E	С	·B
Fourth choice	<b>D.</b>	Ð-	B	• salestin
Fifth choice	Α	Α	-D-	С
Number of Voters	5	4	7	6

a) Who is the plurality winner?

b) Who is the winner by the runoff method?

D	A
Ā	L
15	7

Eliminak E, B, and C

c) Who is the winner by the sequential runoff method?

d) Who is the winner by the 5-4-3-2-1 Borda count method?

A: 68

D: 55

R: 67

E: 72

c: 68

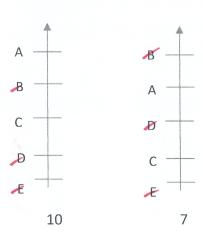
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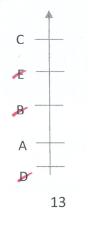
e) Who is the Condorcet winner, if there is one?

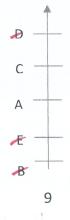
Avs. C A vs. D vs. B Evs. A)

f) Based on the information above, who would YOU name as the winner of this election? Why?

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a) Who is eliminated first?



b) Which candidate, if any, receives the first place votes that had been awarded to the student who was eliminated first?

c) Who is eliminated second?

d) Which candidate receives the first place votes that had been awarded d) to the student who was eliminated second?



e) Provide the **complete ranking** of students based on this series of runoff elections below:

1<sup>st</sup> place:

2<sup>nd</sup> place: A

3<sup>rd</sup> place:

4<sup>th</sup> place:

5<sup>th</sup> place: *E* 

First choice	В	D	• C	Α •	• A
Second choice	• C	• A	D	D	• C
Third choice	• A	• C	Α	• C	D
Fourth choice	D	В	В	В	В
Number of Voters	20	13	8	3	16

a) Who is the plurality winner?

a) <u>B</u>

b) Who is the winner by the runoff method?

)\_A\_

c) Who is the winner by the sequential runoff method?

d) Who is the winner by the 4-3-2-1 Borda count method?

d)

A: 171

C: 172

B: 120

- D: 137
- e) Who is the Condorcet winner, if there is one?

e) \_\_\_\_\_A

- An. B 40 20
- Avs. C
- A)vs. D 39 21
- f) Based on the information above, who would YOU name as the winner of this election? Why?