Name:

Voting Day 5

Fall 2015

Lecturer: Dr. Paullin

For Problems 1-8, consider the Preference Schedule below, representing votes on a mascot for a local baseball team. The choices for mascot were: Aardvark, Buffalo, Camel, and Dingo.

Votes	5	6	2	3	1
1st	$\langle \mathbf{A} \rangle$	В	Ø	Ø	(B)
2nd	В	Ā	A	Ø	$\widecheck{\mathbb{D}}$
3rd	Ø	Ø	$\widetilde{\mathbf{B}}$	$\langle \mathrm{B} \rangle$	Ø
4th	Ð	Ď	D	$\widecheck{\mathrm{A}}$	Α

(1) How many votes were cast?

17

(2) Using Plurality, which mascot wins the election? How many votes did the winner get?

Buffalo - 7 votes

(3) Using the Borda Count Method, how many points did each mascot receive? Who won the election if the Borda Count is used?

A:48

B: 53

C: HI

D: 28

Byselo

(4) How many votes are needed for a majority?

(5) Using Plurality with Elimination, which mascot gets eliminated first? Who wins the election if Plurality with Elimination is used?

eliminated first Camel

Buffalo uni (after eliminating)

(Camel & Dingo)

(6) Using Pairwise Comparison, How many comparisons must be made?

$$\frac{4(3)}{2} = 6$$

(7) Using Pairwise Comparison, complete the table of comparisons, and determine the winner.

Pairings	Votes	Winner/Points
AVB		B-1
AVC		A-1
AVD		A-l
BVC		3-1
RVD		B-1
AND		
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was served for the p		
e		
a control and the second		

Buffalo

(8) Using Pairwise Comparison, is there a Condorcet Candidate? If so, what candidate?

For Problems 9-16, consider the Preference Schedule below, representing votes for which ice cream to serve for a birthday party. Choices were: Chocolate, Vanilla, and Strawberry.

Votes	5	4	4	2
First Choice	С	V	S	V
Second Choice	S	S	С	С
Third Choice	V	С	V	S

(9) How many votes were cast?

15

(10) Using Plurality, which flavor wins the election? How many votes did the winner get?

Vanilla - 6 voks

(11) Using the Borda Count Method, how many points did each flavor receive? Who won the election if the Borda Count is used?

C: 3\ V: a7 S: 32

Straubeng vins

(12) How many votes are needed for a majority?

(13) Using Plurality with Elimination, which flavor gets eliminated first? Who wins the election if Plurality with Elimination is used?

Chocolate wis

(14) Using Pairwise Comparison, How many comparisons must be made?

$$\frac{3(2)}{2} = 3$$

(15) Using Pairwise Comparison, complete the table of comparisons, and determine the winner.

Pairings	Votes	Winner/Points
CVV		C-1
CVS		S-1
VVS		S-1
Mary American Company		·
* **Automobile**Committy		
g of the second of		
And the second s		
And the second s		
man property and the second		
1 Confedent American Control of the Control		

Showberg wins

(16) Using Pairwise Comparison, is there a Condorcet Candidate? If so, what candidate?

ys- Strawburg