## D1: Voting Methods

Group Activity

1. Ranked Choice Voting Election. Our class will elect the best candy out of the three that are running for office: R=Reese's Peanut Butter Cups, S=Starburst, K=KitKat

Please get ballot forms for your group and fill them out anonymously and turn them in. When all the results are tabulated, make a preference schedule.

Preference Schedule

ma	Number of Voters	4	6		2	7	- 7
3	1 <sup>st</sup> choice	R	R	S	5	K	K
2	2 <sup>nd</sup> choice	· S	K	R	K	S	R
1	3 <sup>rd</sup> choice	K.	5	K	R	R	S

a. How many voters voted in this election? 27

b. How many votes are needed for a majority?  $27 \div 2 = 13.5$ 

c. How many votes are needed for a plurality win? 27:3 = Divide by # of candidates

d. Find the winner under the plurality method.

R=10 S=3

e. Find the winner under the Instant κυποπ Voting method.

Kitkat wins

f. Find the winner under the Borda Count method.

$$R = 1.9 + 2.8 + 3.10 = 55$$

Kitkat wins

g. Find the winner under the Pairwise Comparisons method.

K won 2 pairs so

K wins the Pairwise method

h. Which method do you think is the most fair in this situation and why?

Opinion.