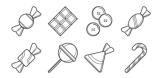


Mathematics of Voting



EXPLORE: Candy Simulation

Method One: Popular Vote

Directions:

• Individually write down your favorite kind of candy.

Calculate what candy is the most popular based on which one got the most votes

Results:

• Is this method fair? Why or why not?

Do you think it is the best way to decide the class' favorite candy?

Method Two: Representative Vote

Directions:

• Your teacher will divide you into groups

- Each group will have a leader which is the person whose birthday comes first in the year.
- Without consulting the rest of the group, the leader will decide which of four candy choices the group's favorite is.

Results:

• Is this method fair? Why or why not?

Do you think it is the best way to decide the class' favorite candy?

Method Three: Modified Electoral College

Directions:

You will stay in the same group.

- This time the leader of the group will consult the rest of the group to decide on a favorite candy choice.
- Each group, regardless of size, gets one vote.

Name_				
Resul	ts:			
•	Is this method fair? Why or why n Do you think it is the best way to o		s' favorite candy?	
Meth	od Four: Electoral College			
•	You will decide how many votes y percent of the class your group re		out of a total of 100 votes based on roportions below to guide you):	the
	Number of people in group	-	Number of votes	
	Total number of students in class	S	100	
Expla	in: Electoral College			
•	How many total electoral college	votes are there	e?	
•	How many votes does each state	begin with?		
	(hint: equal to the number of senators	from each state)		
Elabo	rate: Looking More Closely at the	Electoral Colle	ge Votes	
	tions : Use the table with the popul , the proportions provided, and a c		tate and the total number of elector swer the following questions.	al
1.	What percent of the total population is C	California?	_	
	37, 341, 989 population of 309,183,463 total populat		percent of population 100	
2.	What percent of the electoral votes does	it get?		
	55 electoral votes in CA	_ =	percent of votes	
	538 total electoral votes		100	
3.	What percent of the total population is Wyoming?			
	568,300 population of WY		percent of population	
	309,183,463 total populati	on of US	100	

What percent of the electoral votes does it get?			
3 electoral votes in WY	percent of votes		
538 total electoral votes	100		
Is the votes in CA and WY proportional to its p	oopulation?		
ORATE PART TWO: Considering only the 435 v	otes based on population		
What percent of the population is Texas?			
25,268,418 population of TX	percent of population		
309,183,463 total population of US	100		
What percent of the electoral votes does it get?			
36 electoral votes in TX based on popu	ulation percent of votes		
435 total electoral votes based on pop			
What do you notice if we only consider the 43	35 votes based on population?		
	538 total electoral votes Is the votes in CA and WY proportional to its possible. ORATE PART TWO: Considering only the 435 volume. What percent of the population is Texas? 25,268,418 population of TX 309,183,463 total population of US What percent of the electoral votes does it get? 36 electoral votes in TX based on population.		

EVALUATE: If you were able to decide how the president of the United States was elected, would you keep our system the way it is or make changes to make it a better system? Explain what you would change and justify why you would make that change.