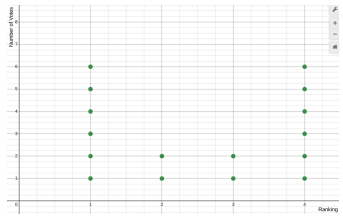
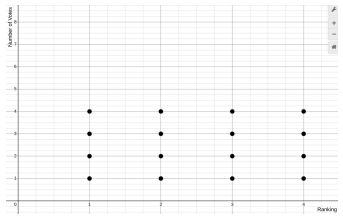
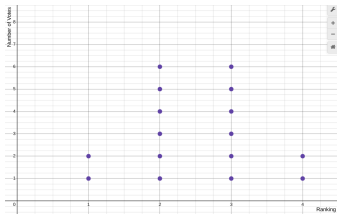
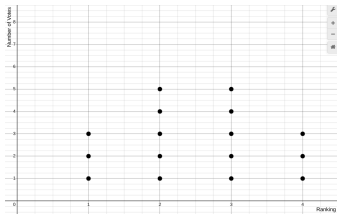
Voting Lesson #4 Name _____

- **What is Variability?:** Complete Desmos: Human Stopwatch
  - Period 1 OR Period 3 OR Period 4
  - What does it mean for data to have HIGH VARIABILITY versus LOW VARIABILITY?
    Response
  - Why is MEAN **not** an appropriate measure of VARIABILITY?
    Response

- **2024 Song of the Summer**: The Dot Plots below show the rankings from my 2nd period class for each of the Song of the Summer 2024 candidates.

Not Like Us	Apple	I Had Some Help	Birds of a Feather
			

  - Which song do you predict would win based on the dot plots? Why?
    Response
  - Which song had the most VARIED responses? Explain your thinking.
    Response
  - What does HIGHER VARIABILITY mean about a candidate in an election?
    Response

- **Measuring Variability**:
  - Find the MEAN rank for each Song of the Summer Candidate. Show or explain your response.
    Response
    Not LIke Us:
    Apple:
    I Had Some Help:

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Birds of A Feather:

- Which candidate (Not Like Us, Apple, I Had Some Help, Birds of a Feather) had the most number of rankings WITHIN 1 UNIT of the mean? Explain your reasoning.
  Response

- Which candidate (Not Like Us, Apple, I Had Some Help, Birds of a Feather) had the least number of rankings WITHIN 1 UNIT of the mean? Explain your reasoning.
  Response

- What do your answers to the last two questions tell you about the VARIABILITY of the candidates rankings?
  Response

- **Deviations:** The table below shows the rankings for Not Like Us
  - How do you think the Deviations from Mean were calculated? How do you know?
    Response
  - Why are some of the Deviations from Mean NEGATIVE and some POSITIVE?
    Response

	Ranking	Deviation from Mean
Student 1	1	-1.5
Student 2	1	-1.5
Student 3	1	-1.5
Student 4	1	-1.5
Student 5	1	-1.5
Student 6	1	-1.5
Student 7	2	-0.5
Student 8	2	-0.5
Student 9	3	0.5
Student 10	3	0.5
Student 11	4	1.5
Student 12	4	1.5
Student 13	4	1.5
Student 14	4	1.5
Student 15	4	1.5
Student 16	4	1.5

- Not Like Us had the HIGHEST VARIABILITY among all the candidates. How can the Deviations from Mean help show this?
  Response

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