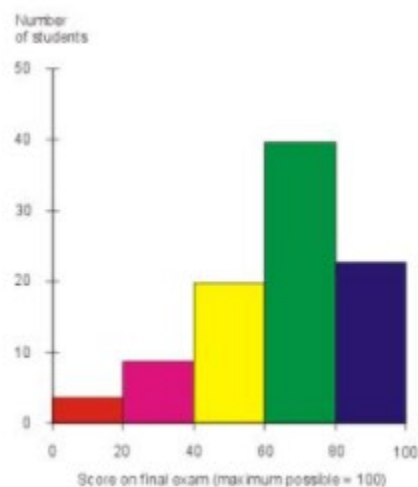
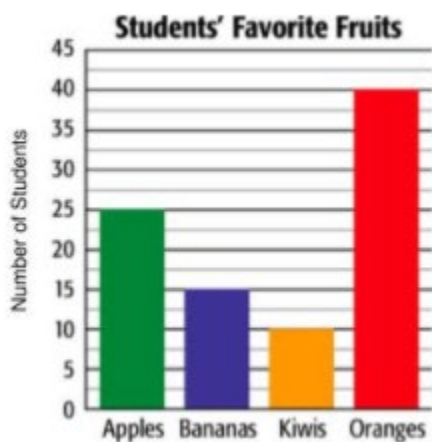


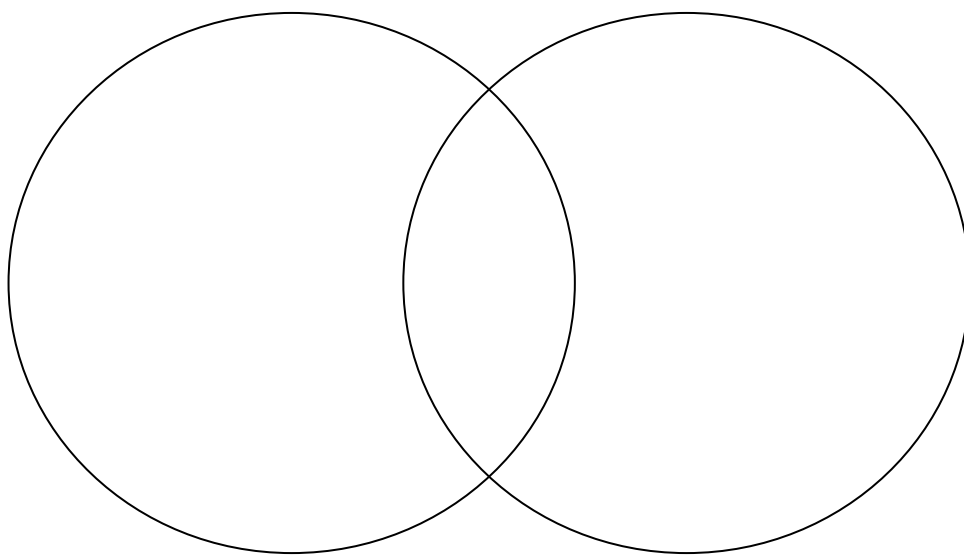
Lesson B3: Comparing Data Sets Using Dot Plots and Histograms

1a) Compare/contrast bar graphs and histograms using the Venn Diagram below.

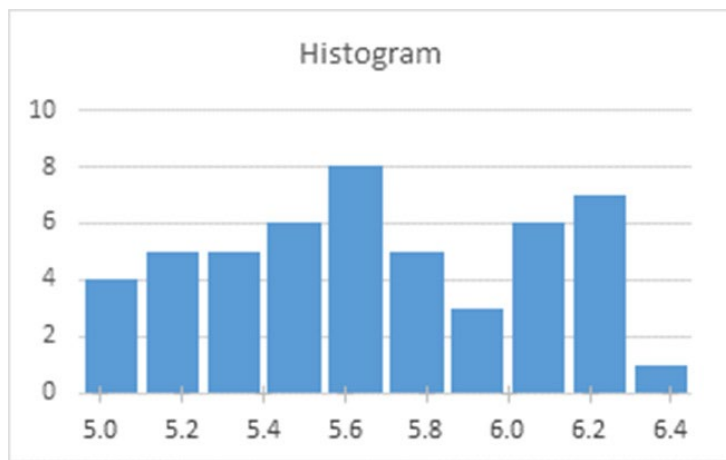


Bar Graphs

Histogram



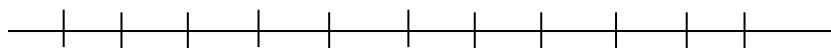
1b) Error analysis: Identify as many mistakes as you can in the histogram below. Think back to the previous lesson, how is this histogram different?



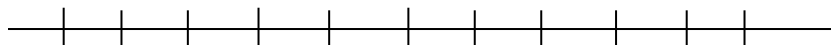
- 2) Below are the shoe sizes of ten (W)NBA players. Record the names and sneaker sizes of ten students in your class. Create a dot plot for each set of data below.

Player Name	Sneaker Size	Student Name	Sneaker Size
Stefanie Dolson	12		
Skylar Diggins-Smith	11		
Crystal Langhorne	13.5		
Swin Cash	12		
Asjha Jones	13		
Giannis Antetokounmpo	16		
Reggie Jackson	11		
Bill Russell	14		
Kareem Abdul-Jabar	16		
Shaquille O'Neal	22		

(W)NBA Players' Shoe Size



Student Shoe Size



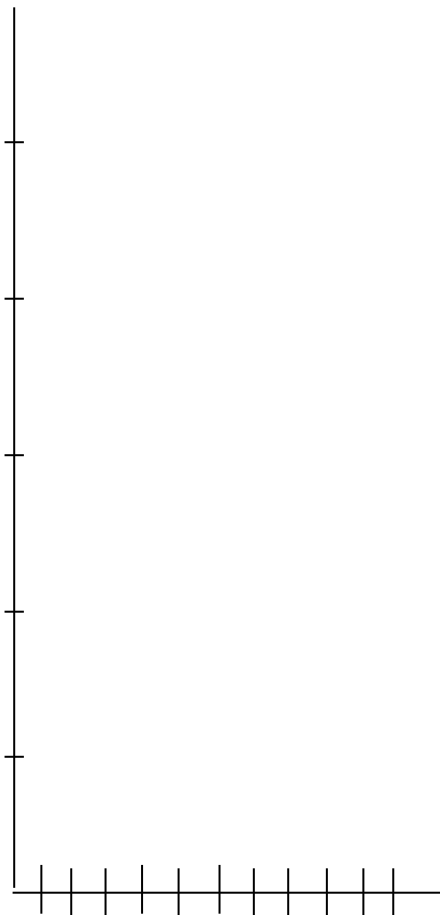
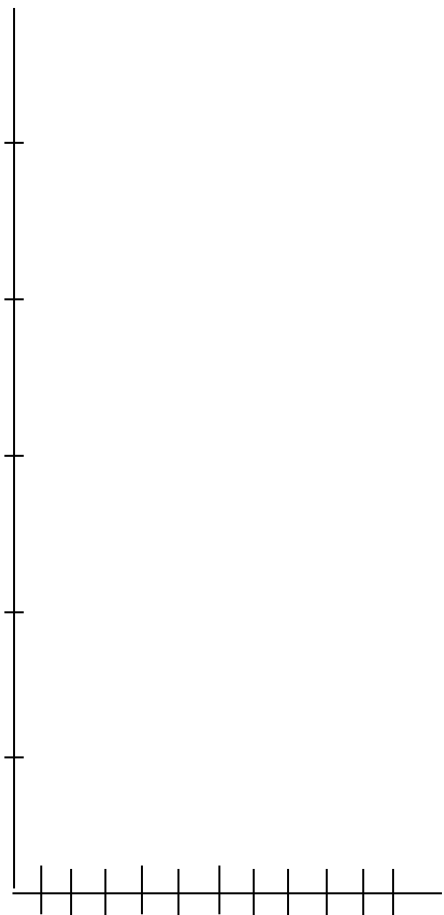
- 3) What trends do you notice with (W)NBA players? Your class?

- 4) Using the data from these dot plots, what conclusions can you make about the shoe sizes of an average (W)NBA player versus the average 6th grader?
- 5) Below are two tables of retweets of the last 10 retweets for Billie Eilish and The Weeknd. Create a histogram from these two tables. Use the frequency tables beneath to help you.

Billie Eilish	The Weeknd
593	1223
3190	3016
1471	1153
1395	3670
1533	5097
463	7375
2713	4077
3374	8196
1293	4921
226	9375

Billie Eilish		The Weeknd	
0 - 499			0 - 999
500 - 999			1000 - 1999
1000 - 1499			2000 - 2999

1500 - 1999			3000 - 3999
2000 - 2499			4000 - 4999
2500 - 2999			5000 - 5999
3000 - 3499			6000 - 6999
3500 - 3999			7000 - 7999
4000-4499			8000 - 8999
4500-5000			9000 - 9999

Histogram Billie EilishHistogram The Weeknd

- 6) For each histogram, describe shape, central tendency (mean/median), min/max and anything else that stands out to you.

Billie Eilish		The Weeknd	
Shape		Shape	
Mean		Mean	
Median		Median	
Min		Min	
Max		Max	

- 7) Use your results above to make an argument for who has the higher social media following.



Summary

You can compare two data sets using dot plots and histograms. Briefly discuss which data representation you prefer and why.
