

NAME:

What's the average word length of a Beyoncé song?

1. Quickly circle a random sample of 5 words. Write them below. How many letters are in each word?

2. What is the average word length of your sample? _____.

3. Put your average on the dotplot on the white board at the front of the room. Copy the class dotplot below.

Number of Letters: Student Choice

4. Find a new sample of 5 words using a random number generator. Put your average on the dotplot on the white board at the front of the room. Copy the class dotplot below.

Number of Letters: Calculator Choice

5. How is the dotplot from #4 different than the dotplot for #3? Which do you think is a better estimator of the true mean word length?

6. What do you think the true mean word length is for "Crazy in Love"?

7. It is known that Beyonce wrote the lyrics for all of the Destiny's Child songs. The average word length for these songs is 3.64 letters. Based on your samples, do you have good evidence that Beyonce did not write the lyrics for "Crazy in Love". Explain.