**Independent Practice 2.6**

1. In your own words explain the similarities and differences between stratified and cluster sampling.
2. For each of the following scenarios, determine which type of sampling was used. Explain how you know you chose the correct method as your answer
   1. Choose 100 telephone numbers **at random** from the entire book.
   2. Choose **any three pages from the telephone book at random**, and call everyone on those pages.
   3. Choose every **100th** listing in the telephone book.
   4. Choose **20 random people** with last names beginning with the letters A, C, N, and S.
   5. If you were creating a sample of 100 people from a phone book, which method do you believe would be most appropriate? Explain why.

3. If a DJ wants to know the average lengths of songs he plays and he has about 200 CDs, How could he make a cluster sample to most effectively answer his question?

1. Choose another sampling method (stratified, Systematic, Simple random) and create a sample for his study.
2. Which method had more accurate results? Explain why you think this is true.

4. Enrich Yourself!

Create an example on your own where you use one of the unbiased methods to collect your sample. Then create another example in which the sample collected presents some type of bias. After, you will switch with a partner and they will determine which sample is biased and why and also which sample collected used on of the unbiased methods.