

1. **Git URL** – [vasanthkalai/hello-world: Week 1 - Assignment \(github.com\)](https://github.com/vasanthkalai/hello-world)
2. **What is the level of measurement of the following variables?**

Nominal variables – names or types.

Ordinal variables – ordered data.

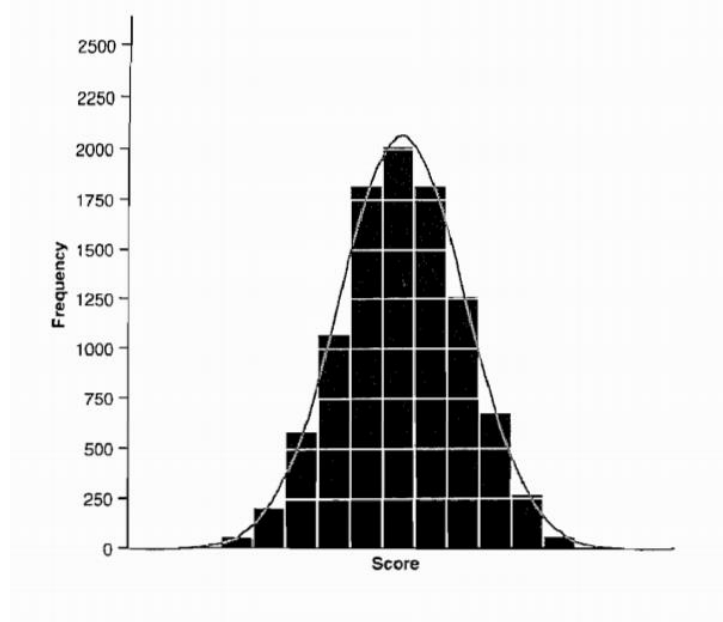
Ratio – values with true zero.

- a. The number of downloads of different bands' songs on iTunes – **Ratio**.
 - b. The names of the bands that were downloaded – **Nominal variable**.
 - c. The position in the iTunes download chart – **Ordinal variable**.
 - d. The money earned by the bands from the downloads – **Ratio**.
 - e. The weight of drugs bought by the bands with their royalties – **Ratio**.
 - f. The type of drugs bought by the bands with their royalties – **Nominal variable**.
 - g. The phone numbers that the bands obtained because of their fame – **Nominal variable**.
 - h. The gender of the people giving the bands their phone numbers – **Nominal variable**.
 - i. The instruments played by the band members – **Nominal variable**.
 - j. The time they had spent learning to play their instruments – **Ratio**.
3. **Say I own 857 CDs. My friend has written a computer program that uses a webcam to scan the shelves in my house where I keep my CDs and measure how many I have. His program says that I have 863 CDs. Define measurement error. What is the measurement error in my friend's CD-counting device?**

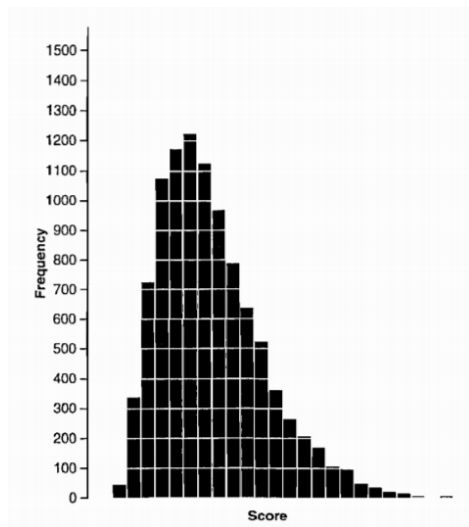
Measurement error = measured value – true value

Thus, measurement error = $863 - 857 = 6$

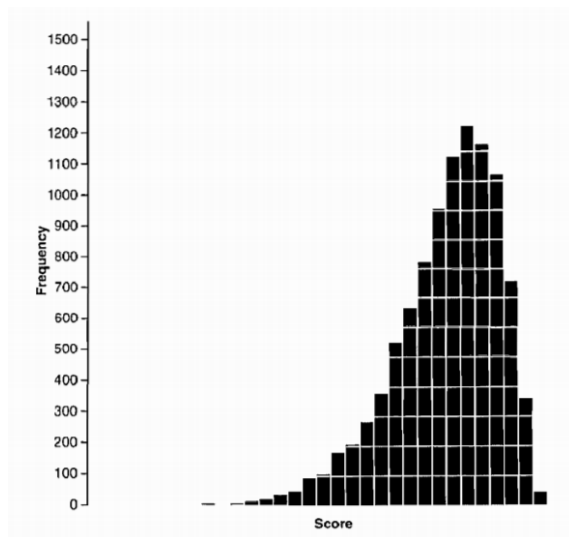
4. **Sketch the shape of a normal distribution, a positively skewed distribution and a negatively skewed distribution.**



Normal Distribution



Positively skewed distribution



Negatively skewed distribution