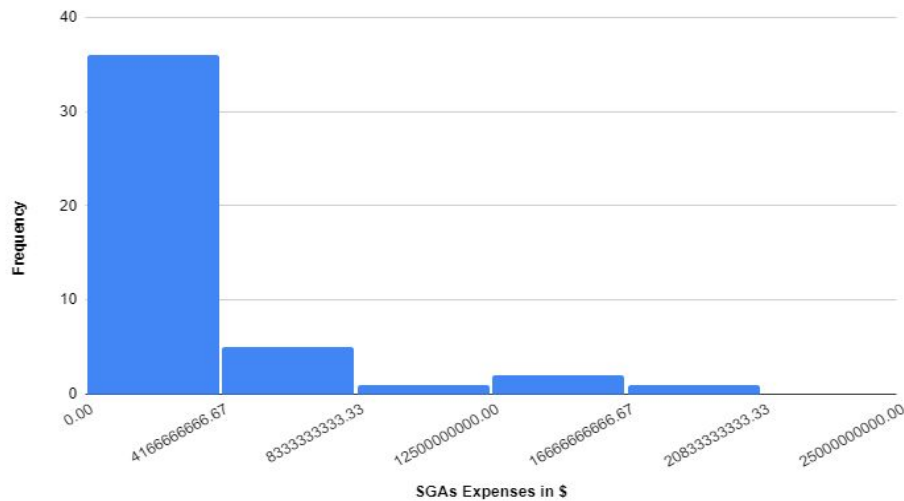


Aaron Fritz  
May 2023

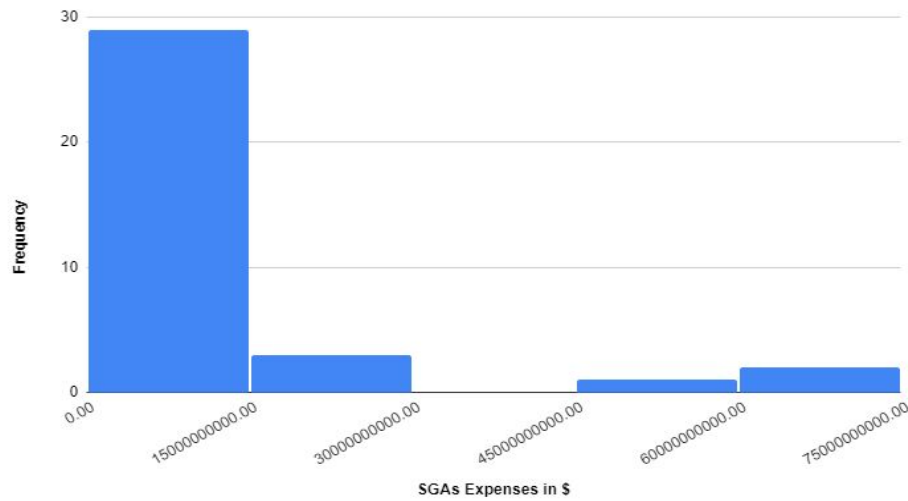


Does the Healthcare sector have higher expenses in Sales, General and Admin compared to the Financial sector in year 1?

SGAs expenses for Healthcare Year 1



SGAs expenses for Financials Year 1



Above are two histograms that contain data for the annual expenses for sales, general, and admin for the Healthcare and Financial sectors. The time period is for year 1 and contains all the reported data from every company in those sectors.

- We have two right skewed histograms with the **mean** for the Healthcare sector equalling about **\$2.9 billion** and the **median** equalling **\$1.5 billion**. For the Financial sector the **mean** was about **\$8.1 billion** and the **median** was about **\$1.8 billion**.
  - Looking at the data we can see that there is an **average** of **\$5.2 billion** difference of expenses between the Financial sector and the Healthcare sector.
- The **standard deviation** between the Financial sector (**\$16.3 billion**) and the Healthcare sector (**\$4.1 billion**) SGAs expenses is staggering.
  - Looking at the data the Financial sector's standard deviation is over **4x** as high as the Healthcare sector. This mean the Financial sector has more spread compared to the Healthcare sector.
- The Financial sector has a higher **range** (**\$70.8 billion**) compared to the Healthcare sector (**20.8 billion**). This means that the Financial sector has a higher spread and is farther away from the mean. I also noticed that even though the Healthcare sector had a higher number of expenses reported the Financial sector had a higher quantity total.

Work Book:

[https://docs.google.com/spreadsheets/d/1T5Dng0WhTV9QNspof\\_LQAKpCVj8TiYI6bPazyGiqeyU/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1T5Dng0WhTV9QNspof_LQAKpCVj8TiYI6bPazyGiqeyU/edit?usp=sharing)

## Resources:

- <https://youtu.be/FH7RAmO6nSo>