

# **Project 2**

## **NYSE**

# Dose Hotels, Resorts & Cruise Lines industry have a higher gross profit than the Restaurants industry in year 4?



Here is a box plot that shows the gross profit for Hotels, Resorts & Cruise Lines industry, and Restaurants industry for year 4.

Both industries have a right-skewed distribution because the mean is higher than the median.

The restaurants industry has a 12804800000 maximum and 498214000 minimum of gross profit when the hotels, Resorts & Cruise Lines industry has only 7006000000 maximum but a higher minimum with 2123000000 gross profit. Restaurants have a higher **range** with 12306586000 and the range for hotels is only 4883000000.

**The median** for restaurants is 3746000000 and for hotels is 3017840500 only.

**The mean** for restaurants is 5675862800 and for hotels, Resorts & Cruise Lines industry is 3791170250.

50% of companies in the Restaurant industry have a gross profit above 3746000000 when 50% of companies in the hotel industry have gross profit above 3017840500. However, the restaurants industry has a **standard deviation** of 5370520679.08 when hotels have only 2189378301.70 which means the variability in restaurants' gross profit is higher and makes it riskier than the Hotels, Resorts & Cruise Lines industry.