

BUS 261: Group Assignment #2

Carlos, Aubry, Andrea, and Sophia

Group Assignment #2

Andrea, Carlos, Aubry, Sophia

1a. Annual sales sample size consists of 546 San Pedro businesses. The Foundation of the Los Angeles Maritime Museum Corporation has the lowest (minimum) annual sales at \$40,000 and Seaside Transportation Services LLC has the largest (maximum) at \$184,510,000. The sum of all businesses in San Pedro is \$1,046,130,000 in annual sales. The mean for annual sales is \$1,915,989.

Annual Sales (\$ million)	
Mean	1.915989011
Standard Error	0.3938022381
Median	0.58
Mode	1.2
Standard Deviation	9.201836266
Sample Variance	84.67379067
Kurtosis	295.9963681
Skewness	15.9134258
Range	184.47
Minimum	\$0.04
Maximum	\$184.51
Sum	\$ 1,046.13
Count	546

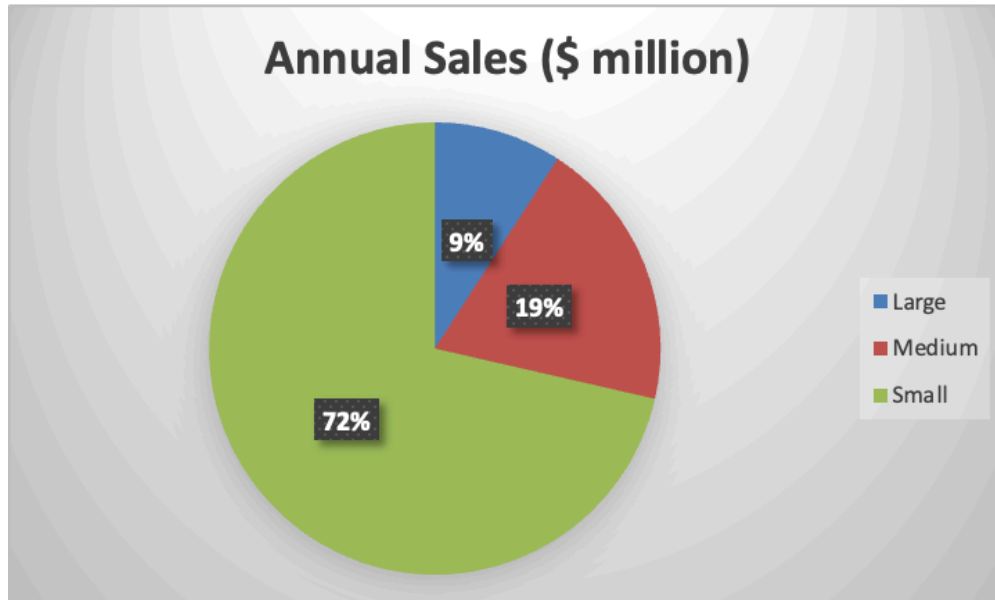
1b. Employee sample size consists of 546 businesses that have employees. San Pedro doesn't have a business with less than five employees. The largest business has 556 employees, the sum of all the employees in San Pedro businesses is 9049. The average amount of employees working for a business in San Pedro is 16.57, or around 16 to 17.

Number of Employees	
Mean	16.57326007
Standard Error	1.64268757
Median	8
Mode	5
Standard Deviation	38.38409384
Sample Variance	1473.33866
Kurtosis	112.6406443
Skewness	9.559929027
Range	551
Minimum	5
Maximum	556
Sum	9049
Count	546

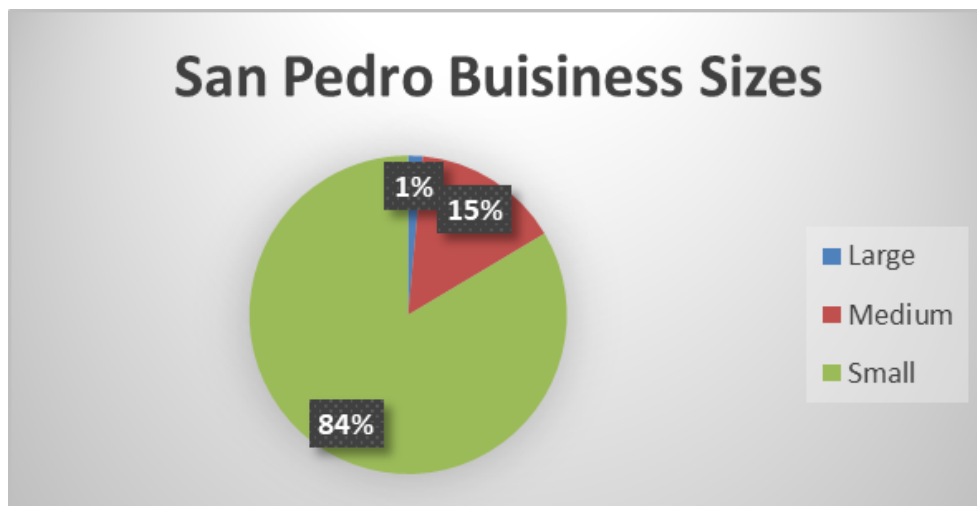
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1c. Small Businesses bring in a majority of sales revenue compared to medium and large. Small businesses generate eight times more annual sales than large businesses. Medium size businesses generate twice as much annual sales than large businesses.



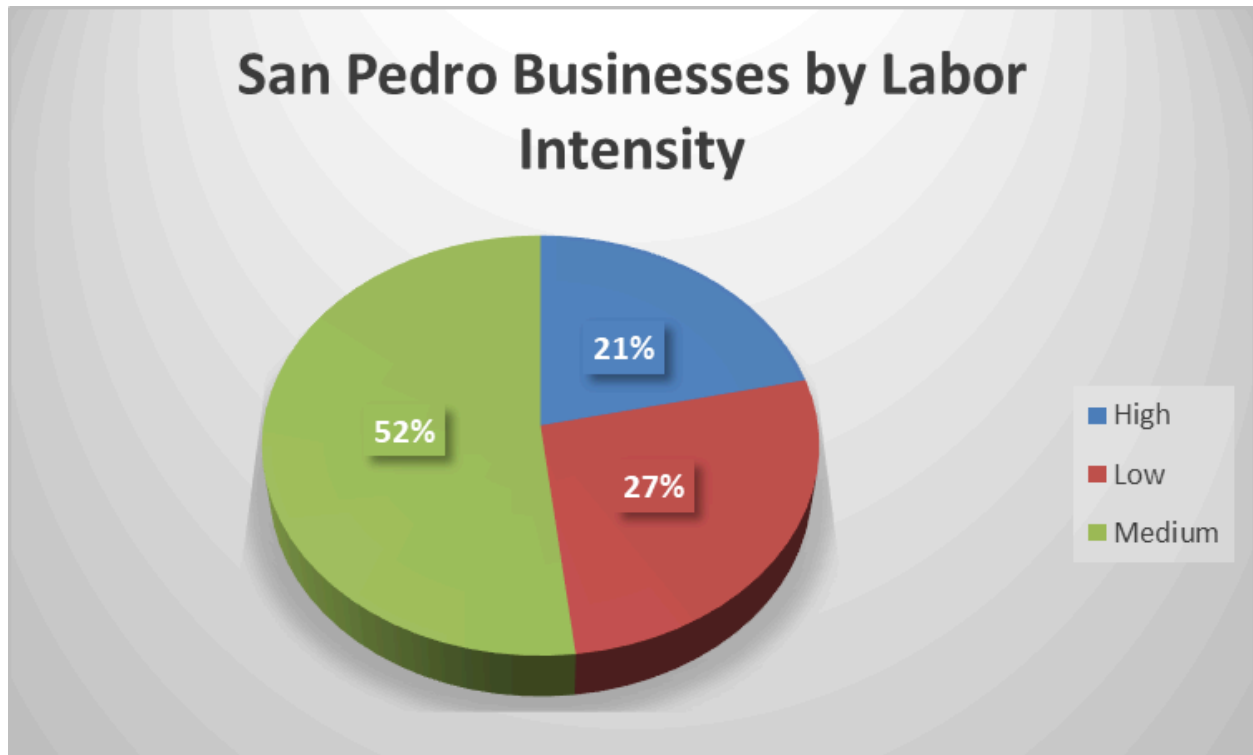
1d. San Pedro's large businesses have the smallest workforce when compared against medium and small businesses.



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1e.



Dow Jones and More: An Investor's Insight

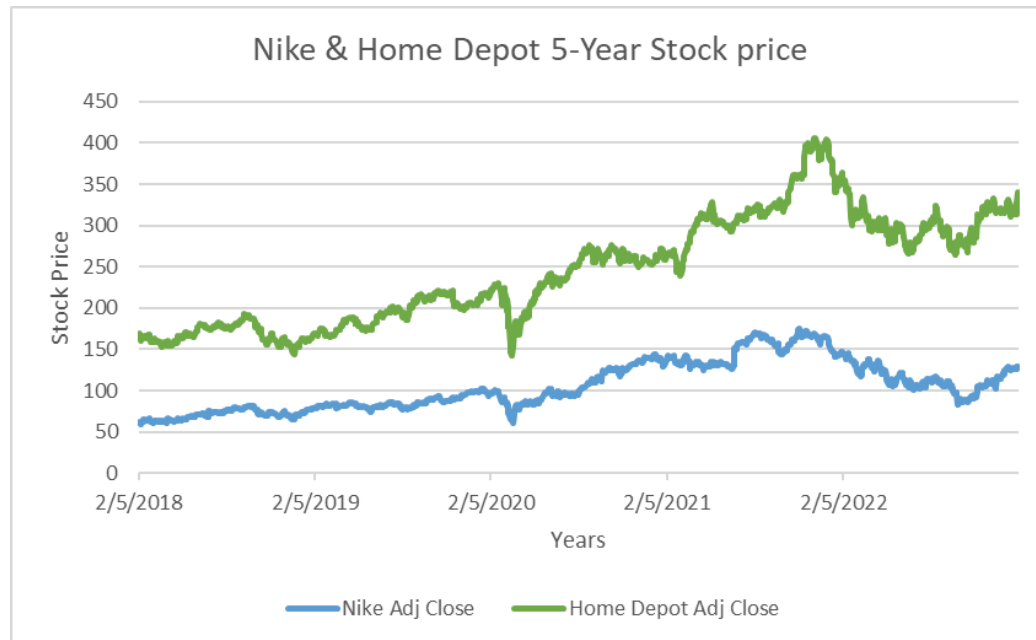
2a. Home Depot and Nike were the two companies chosen.

2b. Both Home Depot and Nike stock price trend line shows a gradual increase over the last five years. The mode of \$124.109032 occurred four times within the last five years for Nike. The mode of \$180.021347 occurred three times within the last five years for Home Depot.

2c. Both companies displayed very similar increases and decreases in stock prices over the last five years. However, Home Depot did show a spike in stock growth around the end of 2021 and before the beginning of 2022.

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2d. The two companies pre-COVID displayed a slight increase in stock price, however Home Depot did show a spike prior to the nose dive in April 2020. During the pandemic, Home Depot showed the most gain between April 2020 and August 2020. I assume people were shopping more for quality of life at home versus fashion since most of America was locked down away from public encounters. Home Depot did suffer a steeper loss than Nike at the start of the pandemic. Post pandemic, Home Depot displayed the steeper stock increase and hasn't returned to the pandemic days since. Nike overall seems to be the least volatile company, with steady gains and minimal losses.

2e.

	Sample Average (X)	Sample Standard Deviation (S)	Coefficient of Variation (%)
Home Depot (HD)	246.0041353	65.17689272	28.39%
Nike (NKE)	105.6065547	29.9812301	26.49%

2f. For advising a risk-averse customer, you would want to use Nike's stock because Nike has a more steady stock growth. Even though Nike's stock price is lower throughout the 5-year span, they have steady increases and decreases and nothing drastic since April 2020.

2g. For advising a risk loving customer, you would want to use Home Depot's stock, because Home Depot has many spikes and dives throughout its stock growth. If a person bought low during the start of the recession and maintained, they would have a good nugget now, even after the spike in late October 2021 due to skyrocketing home prices. You don't see those gains in Nike.