Name: Jonathan Nguyen

1. **Type of Analytics**

a. Descriptive

b. Prescriptive

c. Predictive

d. Descriptive

e. Prescriptive

2. **Transportation planning**

a. For plotting the demand, she uses descriptive analytics.

b. To develop forecasting, she uses predictive analytics.

c. To develop a plan to minimize cost based on previous data, she uses prescriptive analytics

3. **Wall Street Journal Subscriber Characteristics**

a. Quantitative

b. Categorical

c. Categorical

d. Quantitative

e. Categorical

4. **Comparing Smartwatches**

a. Quantitative – Time series

b. Quantitative – Time series

c. Categorical – Cross-section

d. Categorical – Cross-section

5. **House Price and Square Footage**

a. Quantitative

b. Cross-Section

c. Scatter plot because it will help visualize the relationship between two variables, price and square footage. For example, at what price is x square footage priced at and so on.

6. **Netflix Subscribers**

a. Quantitative

b. Time series

c. Column chart

7. **U.S Netflix Subscribers**

a. A clustered column chart would be best because we want to display the number of subscribers coming from the United State alongside the number of subscribers for that year in general. We want an overall number and a targeted demographic number.

8. **How Data Scientists Spend Their Day**

a. Quantitative

b. Time series

c. Bar chart

d. There is a greater percentage of scientists who spend less time presenting and more time Exploring.

9. **Industries In the Dow Jones Industrial Complex**

a. Bar chart

b. It is tied between Technology and Financial Services

10. **Job Factors**

a. Column chart

b. Flexible Schedule is the fifth most-cited factor

11. **Retirement Financial Concerns**

a. Bar chart

b. 77%

12. **Master’s Degree Program Recruiting**

a. Funnel chart

b. i - Of those who were sent an email, 21% enrolled.

13. **Chemical Process Control**

a. The observations I can make about the process are that the temperatures drastically decrease if near the upper control limit and that the temperatures stay above 96 and 96.8 degrees. There is a lot of up and down points on the chart to possibly the display the heating up process and steady flow/cooling down process.

14. **Buying a Used Car**

a. Quantitative

b. Scatter plot

c. I would check the lowest price this car was sold at at x mileage and compare how much the seller is currently trying to sell it for. This would determine if the seller is trying to sell it for above average market value at x mileage.

15. **Tracking Stock Prices**

a. There seems to be a steady decrease each month with the occasional slight increase in price per shares but overall, towards the end of the year the price per shares decrease. They start of high in January but end off at about 40% of its value in December.