- 1. a. The accounting alumni of a large southwestern university.
 - b. Age: Quantitative data Gender: Qualitative data

Level of education: Qualitative data

Income: Quantitative data

Job satisfaction ocore: Quantitative data.

Machiavellian score: Quantitative data.

- C. The sample consists of 198 accounting alumni from the large couthwestern university, these individual were selected from a random sample of 700 alumns who received the questionnaire.
- d. The researcher inferred that based on the 198 questionnaires, Machiavellian behavior is not necessarity a trait for achieving success in the accounting profession among the study population. This implies that there is no significant association between Machiavellion traits and professional

success in accounting at least with this group of individuals.

- 2. a. (40+41)/2 = 40,5 b. (36+37)/2=36.5
 - C. first quartile = (33+33)/2=33

IQR=40.5-33=7.5

d.33

e. Outliers: 1. Larger than 40.5+7.5x1.5=51.75 or 2. Less than 33-7,5 x1,5 = 21,75

→ Only 54 > 51,75, there is only 1 outlier.

3. The left chart is histogram, it shows the distribution of a continuous dataset. The right chart is bar chart, it show the comparation between distinct categories, while ages are indeed continuous, the creator of the chart wants to show the comparation between distinct

age groups, so it is a bar chart.

the interpolation between 1.56 and

1. a. 47730 = 1.56, take 1.57 in the normal distribution table, it's $\frac{1}{3} \times 0.940620 + \frac{3}{3} \times 0.941792 = 0.94140$ For normally distributed data, the probability of saggless than 400 is about $\frac{94.14\%}{1.000}$.

The number of 1. 1. Per week

b. 84 † 25 = -3.36. take -3.36 in the normal distribution table, its 0.000390

For normally distributed data, the probability of the number of smells greater than 100 per week is 1-0.000390 = 0.999610 = 99.96%.

5. The probability of falling below the lower tolerance limit: 0.022750

The probability of falling above the upper tolerance limit: 0.006210

The probability of falling within the tolerance limits: 1-0.022750-0.006210 = 0.971040

The probability of falling within the tolerance limits: 1-0.022750-0.006210

The expected profit = $10 \times 0.971040 - 2 \times 0.022750 - 1 \times 0.006210$ = 9.65.869 = 9.66(3).