

Section A: Homework

1) Determine whether the number described is a parameter or a statistic.

a) The average height of all football players on the Eagles Football team in 2016 was 73.72 inches.

b) In a survey of 1000 college students, 37% believe they will have difficulty finding a job in their major field after graduation. _____

c) In a recent poll, the average age of the respondents was 43 years. _____

d) The average number of hours all students at Ivy University study per day is 2.36 hours.

2) Determine which of the following is an example of descriptive statistics and which is an example of inferential statistics.

a) The average height of all faculty at MCCC is 5 feet 11 inches. _____

b) The average IQ of a random sample of 100 students at MCCC is 105. Therefore, the average IQ of all MCCC students is approximately 105. _____

3) Determine whether or not the sample given represents the given population accurately.

a) Population: All students in MAT125 this semester.
Sample: Every 5th name from a list of all students in MAT125 this semester. _____

b) Population: All residents of Mercer County.
Sample: 50 people are selected at random of those who live in Hamilton Square. _____

c) Population: All residents of New Jersey.
Sample: Selection of names at random from all New Jersey residents. _____

4) To determine the average typing speed of 700 students who just finished Typing 101, a group of 20 students is randomly selected. It is determined that the average typing speed is 47 words per minute.

a. What is the population for this study? _____

b. What constitutes the sample? _____

c. Based on the sample, what is the statistic for the average typing speed of the population? _____

5) Which are qualitative and are which are quantitative (If quantitative, state discrete or continuous)?

- a) The number of people attending a Trenton Thunder Baseball game. _____
- b) Your cell phone number. _____
- c) The seating capacity of a football stadium. _____
- d) The amount of electricity used by a household during a given month. _____
- e) The name of your favorite movie. _____
- f) The amount of time you wait to see a doctor. _____
- g) The number of red cars in the MCCC west student parking lot. _____