1.	The Environmental Protection Agency (EPA) uses a few new automobiles of each model every year to collect data on gasoline mileage performance. For the 2017 Honda Accord model, they selected a sample of 16 cars and determined their average fuel efficiency to be 32.2 miles per gallon.
	(a) What is the population of interest in this study?
	(b) Is the average fuel efficiency of 32.2 miles per gallon a statistic or a parameter? Why?
2.	A student engagement committee at Clemson decides to conduct a survey to learn about how students are involved in campus clubs and organizations. The committee randomly selects 125 students and finds that 73% report being involved in at least one club or organization on campus.
	(a) Identify the sample in this situation.
	(b) Describe the population in this situation.
	(c) Identify the statistic in this study.
	(d) Describe the parameter in this study.
	(d) Describe the parameter in this study.
3.	Identify the goal of each of the following as either descriptive or inferential statistics. Describe why you give your answer.
	(a) A researcher wants to study the exercise habits of residents in Pickens County. She randomly selects a sample of residents using phone book listings and conducts short phone interviews with 203 residents who answer the phone, asking them about their weekly exercise routine. She finds that 62% of residents in Pickens County exercise 2-3 times per week.

(b) The owner of a small start-up business with 19 employees asks each of them to submit a timesheet logging their hours worked per day. He finds that, in the last week, the employees at his business

worked an average of 9.5 hours per day.