Chapter 1 Exercises

Section A: Basic Exercises

2. Which of the following are inductive statements?
   (a) More Democrats favor socialized medicine than do Republicans.
   (b) That poem truly expresses how I feel.
   (c) Taking vitamin C reduces the frequency of colds.
   (d) I prefer new music to rap.

7. The University of Nevada, Las Vegas (UNLV) has 30,000 students, and I would like to know how much time UNLV students spend doing homework. My statistics class has 40 students in it, and I assume that they are representative of UNLV students in general. I ask students in my statistics class how many hours they spent doing homework during the last week. Is my statistics class a sample or a population? Why?

9. A standard deck of cards has 52 cards in four suits: spades, hearts, diamonds, and clubs. Spades and clubs are black; hearts and diamonds are red. Each suit has 13 cards: 2 through 10, Jack, Queen, King, ace. The “face cards” are the Jack, Queen, and King. Robby Billity shuffles a standard deck of cards and draws on card. Then Robby replaces the card, shuffles again, and draws another card. He repeats this procedure for a total of 1000 draws. About how many times would we expect Robby to draw these cards?
   (a) The ace of spades
   (b) The 2 of clubs
   (c) A face card in spades
   (d) A face card in any suit