1. Explain why each of the following is or is not a variable. For those which are not variables, use one (1) sentence to explain why. For those which are variables, classify the variable as qualitative, quantitative, or ordinal. If the variable is quantitative, provide appropriate units and state if the variable is continuous or discrete.

(a) coins in your pocket

(b) shoe size

(c) bills in your wallet

(d) the amount of money in your wallet

(e) the number of bills in your wallet

(f) type of shoe

(g) pages in *Fundamental Statistics* by Michael Sullivan, III

(h) DVDs

(i) the number of students in STAT 117

(j) the titles of the DVD's that you have watched within the past two weeks

(k) FSU grades

(l) manufacturer

(m) name of manufacturer

(n) Elementary school grades

(o) Middle school grades

(p) cars

(q) the number of shirts in your closet

(r) the number of hairs on your head

(s) hairs on your head

(t) amount of paint that you buy at Home Depot

(u) religious affiliation

(v) the number of cars on Route 9 in Massachusetts at 12 PM

(w) the cholesterol in your blood

(x) the amount of cholesterol in your blood

(y) the types of cholesterol in your blood

2. For each scenario given below, identify the variables and state the level of measurement for each variable.

(a) You are hired by a lawyer who represents a variety of professional baseball players. Your first assignment for your new employer is to analyze the data below for the positions of the thirty-six top-paid baseball players as of February 2000.

Player	Position	Player	Position	Player	Position	Player	Position
Kevin Brown	Pitcher	Greg Maddux	Pitcher	Mark McGuire	1st Base	Robin Ventura	3rd Base
Randy Johnson	Pitcher	Sammy Sosa	Right Field	Wilson Alvarez	Pitcher	Chuck Finley	Pitcher
Albert Belle	Right Field	Barry Bonds	Right Field	Rapheal Palmeiro	1st Base	Al Leiter	Pitcher
Bernie Williams	Center Field	Derek Jeter	Shortstop	Ivan Rodriquez	Catcher	Brian Jordan	Center Field
Mike Piazza	Catcher	Raul Mondesi	Right Field	Matt Williams	3rd Base	Ray Lankford	Center Field
Larry Walker	1st Base	Gary Sheffield	Right Field	Andres Gallarraga	1st Base	Juan Gonzalez	1st Base
David Cone	Pitcher	Tom Glavine	Pitcher	John Smoltz	Pitcher	Kenny Rogers	Pitcher
Pedro Martinez	Pitcher	Shawn Green	Right Field	Jim Thome	1st Base	Kenny Lofton	Center Field
Mo Vaughn	1st Base	Ken Griffey, Jr.	Center Field	Todd Stottlemyre	Pitcher	Alex Rodriguez	Shortstop

(b) A random sample of thirty-six (36) couples who had been married for seven years was surveyed regarding the number of children they had. The results of the survey are given below.

0	0	3	1	2	3	4	2	3	2	2	4
3	4	3	3	0	3	0	3	3	3	2	1
1	2	1	3	0	3	2	1	3	4	1	3

(c) The number of annual hurricanes the occurred for each year between 1970 and 2000, inclusive, is given below.

2, 1, 0, 1, 2, 3, 2, 1, 2, 0, 2, 4, 1, 1, 3, 3, 0, 1, 3, 2, 1, 2, 1, 1, 0, 5, 1, 1, 3, 2, 3

(d) You are hired to analyze the class year for a group of students who participated in a focus group as part of summer orientation.

Freshman, Freshman, Sophomore, Freshman, Junior, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Sophomore, Junior, Freshman, Freshman, Freshman, Freshman, Freshman, Senior, Freshman, Freshman, Freshman, Freshman, Freshman, Sophomore, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Junior, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Sophomore, Freshman, Freshman, Freshman, Junior, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman, Freshman.