## **Practice Questions for lecture 1 & 2**

Question 1: Determine which of the four levels of measurements is most appropriate.

a)	Biologists measure the water temperature of the Merrimack River in New Hampshire. <b>Ans:</b>
b)	Doctors measure the weights (in pounds) of pregnant women.
,	Ans:
c)	Physicians rank the severity of asthma using mild intermittent asthma, mild persistent asthma, moderate persistent asthma, severe persistent asthma or brittle asthma.  Ans:
d)	A meteorologist compiles a list of temperatures in degrees Fahrenheit for the month of May.  Ans:
e)	A teacher records the eye color of each student.  Ans:
f)	The production of tomatoes by number of cans is
,	Ans:
g)	List of names of students in a class.
1)	Ans:
h)	List of weights of students in a class.  Ans:
i)	List of grades of students in a class.
-)	Ans:
j)	List of body temperatures in Fahrenheit of students in a class.
	Ans:
	ion 2: Determine the type of sampling method:
a)	At a security checkpoint to a government facility, every 10 <sup>th</sup> individual was
	more thoroughly searched than the others. <b>Ans:</b>
b)	Medical researchers following living organ donors classify donors according to
	whether they donated a kidney, a portion of the liver, a portion of the lung, bone marrow, or blood, the general health of 200 donors from each category is monitored for five years. Ans:
c)	marrow, or blood, the general health of 200 donors from each category is monitored for five years.  Ans:  To obtain a sample of pregnant women, a researcher contacts her son's
c) d)	marrow, or blood, the general health of 200 donors from each category is monitored for five years. Ans:  To obtain a sample of pregnant women, a researcher contacts her son's preschool teacher for a list of names. Ans:  A county water quality control officer obtains a list of all residential addresses in the county and constructs a sample of homes to monitor by selecting every
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## **Question 3: Fill in the blank:**

a)	In astudy, data is collected in the future from
	groups sharing common factors (called cohorts).
b)	There is no natural zero starting point for the data which been classified in the level of measurement.
c)	Selection so that each individual member has an equal chance of being selected
	is calledsampling.
d)	The Federal Drug Administration randomly selects a sample of Bayer aspirin in each tablet is measured for accuracy. This sample represent a study.
e)	In a study, Patients are given Lipitor to determine whether this drug has the effect of lowering cholesterol levels, this is an study.
f)	The complete collection of all individuals to be studied is called
g)	A numerical measurement describing some characteristics of a population is called
h)	The branch of statistics generalizing from samples to populations, performing estimations is called
i)	The level of measurement in which categories of a variable have no relation to each other and cannot be arranged in a specific order is called .
j)	The sampling method that divides the population into sections then randomly select some of those sections, and choose <b>all</b> members from selected sections is called



NOTE: Solve similar questions from textbook.