2. a) i) unit ii) process iii) categorited variate (V) continuous variate v) Continuous variate b) The total amount of fuel consumed. c) Sample survey. Recause the population is Tust Professor Sertiger's care and so it is finite, ne do not convider observational studies since the population of interest is infinite by definition. Also, we exclude experimental studies because ue do not changes any variate. The reason that it is Sample survey is that the population is finite and the variates of interest are collected in a way that is similar to using a questronnaire, which is that Professor Stringer writes down the values of the four variates every time he filled a car with gas.