" Nore muscle cramps when stressed"
"Drink more Coffee & sleep less when stressed",

(4.) Observational study: It's a survey that seeks information without influencing the responses in any way

b.) No since this is just an observational study It only measures characteristics of the population of Interest without attempting to influence the rusponses in any way

- c.) Though the sample is generally defined "healthy" the health conclition of the student can still very
   Muscle cramps could be conseed by other physical
  - activities conducted

  - Stress could be Mertal or physical Coffee can cause dehydration which may lead 60 muscle cramps
  - Lack of sleep may lead struss & muscle evemps

Problem 2:

4.) This was an experiment because objected treatments were applied to different parts of the sample and the variations were noted to determine cause & effect

b.) The explanatory variable is the different closage and variations of Vitamin C tablets including the placeto and the response variable is the differences in the measure of cold duration is everity and duration of symptoms

c.) Tes, provided all the tablets had identical appearance & packaging

d.) Tes, because neither the patients nor the researchers were aware of who is in which treatment group

c.) /Us, If a subject chooses not to colhere to the medication they can always vely on other remedies or meelications