43. a. Experimental vs. Random assignment into treatment groups where the explanatory variable is manipulated.
   b. Treatment (A or B) is categorical.
   c. Cholesterol levels are quantitative.
44. a. Observational vs. Treatment is not assigned or manipulated.
   b. No, causal conclusions are not possible in observational studies.
   c. Exercise/meditation
   d. Stress level
45. a. Placebo group
   b. It doesn’t say blinding is implemented. Patients may know what they are getting - it doesn’t say.
   c. Patients vs. those who give treatment/placebo cannot know what is being given.
   d. Yes → treatment groups are created through random assignment.
46. a. 2000 students
   b. Students surveyed
   c. 1/2 d. Yes → Stratified Sample
   e. Yes
   f. Convenience Sample
   g. Yes → selection bias, mostly seniors will be selected.
47. a. Random sample
   b. Mt. SAC students
   c. Yes → random selection from all students.
   d. Yes → the sample is representative.
   e. No → Mt. SAC students don’t represent all community college students.