

### Statistics and Probability Math 3 EOC REVIEW

1. Odyssey School wants to choose a new school mascot. They decide to take a survey to make the determination of what the new mascot will be. Which sample is best for this task?
  - A. Mrs. Smith's 3rd period gym class
  - B. The chess club
  - C. The varsity football team
  - D. 5 boys and 5 girls from each grade level
  
2. There are 45 people working in a particular building. A survey on health is conducted by giving every third person in the building a questionnaire to fill out. From the questionnaire the researcher obtains a score on that persons health.

What is the number of members in the sample of questionnaire scores?

  - A. 45
  - B. 3
  - C. 15
  - D. 27
  
3. You want to test the effectiveness of a new medicine in lowering blood pressure. You randomly select a group to take a sugar pill (unknown to the patients) and you randomly select a group to take the new medicine. Blood pressure readings are taken for both groups before the doses are given. After taking the medication for 1 month, blood pressure readings are taken again. What type of study is described?
  - A. Survey
  - B. Observation
  - C. Experiment
  - D. Sample
  
4. Do American teens like ice cream sundaes? A researcher is conducting surveys in the United States to answer that question for the Dairy Farmers of America Lobbying Association. The researcher is surveying a portion of American teens to determine the answer to the question. This is an example of a(n) \_\_\_\_\_.
  - A. Census
  - B. Simulation
  - C. Experiment
  - D. Sample
  
5. Which type of study is best to use to determine the favorite TV show on a Monday night?
  - A. Survey
  - B. Observation
  - C. Experiment
  - D. Sample
  
6. What is the best method of collecting data about pets in a household?
  - A. questionnaire
  - B. experiment
  - C. interview
  - D. census

1.  
Answer: D  
Objective: S.IC.1
2.  
Answer: C  
Objective: S.IC.1
3.  
Answer: C  
Objective: S.IC.3
4.  
Answer: D  
Objective: S.IC.3
5.  
Answer: A  
Objective: S.IC.3
6.  
Answer: A  
Objective: S.IC.3