

1. A Southwestern Oregon Community College instructor is interested in the mean number of days Southwestern Oregon Community College math students are absent from class during a quarter.

Consider the following:

X = number of days a Southwestern Oregon Community College math student is absent

In this case, X is an example of a:

- A. data.
- B. variable.
- C. population.
- D. statistic.

2. A marketing company is interested in the proportion of people who will buy a particular product.

Identify the sample.

- A. whether or not a consumer would buy the product
- B. consumers who participated in a multi-store survey of the product
- C. consumers
- D. the proportion of consumers who will buy a particular product
- E. consumer preferences of those who participated in the multi-store survey
- F. the proportion of consumers in a multi-store survey who said they would buy the product

3. A Southwestern Oregon Community College instructor is interested in the mean number of days Southwestern Oregon Community College math students are absent from class during a quarter.

What is the population she is interested in?

- A. all Southwestern Oregon Community College English students
- B. all Southwestern Oregon Community College math students
- C. all Southwestern Oregon Community College students in her classes
- D. all Southwestern Oregon Community College students

4. A fitness center is interested in the mean amount of time a client exercises in the center each week.

Identify the data.

- A. the amount of time a client exercises in the center each week
- B. the weekly exercise times of 100 randomly chosen clients
- C. the average amount of time 100 randomly chosen clients exercise each week
- D. clients of the fitness center
- E. the mean amount of time a client exercises in the center each week
- F. 100 randomly chosen clients

5. A cardiologist is interested in the mean recovery period of patients who have had heart attacks.

Identify the variable.

- A. the time it takes a patient to recover from a heart attack
- B. the average of all of the cardiologist's current and former patients' recovery times
- C. the mean recovery period of patients who have had heart attacks
- D. all of the cardiologist's current and former patients
- E. patients who have had heart attacks
- F. the recovery times of the cardiologist's current and former patients

6. Insurance companies are interested in the mean health costs each year of their clients, so that they can determine the costs of health insurance.

Identify the sample.

- A. the health costs each year of the 1000 randomly chosen health insurance clients
- B. yearly health costs of a client
- C. the mean health costs each year of their clients
- D. clients of health insurance companies
- E. the average of the health costs each year of the 1000 randomly chosen health insurance clients
- F. 1000 randomly chosen health insurance clients

7. A fitness center is interested in the mean amount of time a client exercises in the center each week.

Identify the parameter.

- A. the average amount of time 100 randomly chosen clients exercise each week
- B. the amount of time a client exercises in the center each week
- C. the weekly exercise times of 100 randomly chosen clients
- D. 100 randomly chosen clients
- E. clients of the fitness center
- F. the mean amount of time a client exercises in the center each week

8. A Southwestern Oregon Community College instructor is interested in the mean number of days Southwestern Oregon Community College math students are absent from class during a quarter.

The instructor's sample includes students who missed 0 days, 3 days, 4 days, and 7 days (i.e., $X = 0$, $X = 3$, $X = 4$, and $X = 7$). These values are an example of:

- A. a statistic.
- B. data.
- C. a variable.
- D. a parameter.