

Two-Way Frequency Tables

Home Work

Put the following information in a two-way frequency table in the space below and use it to answer the questions.

57. At USA College, 1000 students were surveyed about social websites. Half of the college students surveyed were girls. Out of the girls, 460 reported having an account on a social website. Of the boys, 320 stated that they had an account.

- a. What is the probability that a person who has a social account is a girl?
- b. Find the percentage of boys that do not have an account.
- c. Of the girls, what is the probability that they do not have a social account?
- d. Given that a person has a social account, what is the probability that they are a boy?

58. A group of students at a university studied leukemia in dogs and cats. 2000 pets participated in their study. 750 were dogs and the rest were cats. 57 of the dogs and 423 cats had leukemia.

- a. Did dogs have a greater percentage of leukemia or the cats? Prove your answer mathematically.
- b. Of the animals that had leukemia, what percentage were cats?
- c. Given that the animal was a dog, what is the probability that it would have leukemia?
- d. Find the probability that a dog would not have leukemia.