Snowmobiles in the park

Yellowstone National Park surveyed a random sample of 1526 winter visitors to the park. They asked each person whether they owned, rented, or had never used a snowmobile. Respondents were also asked whether they belonged to an environmental organization (like the Sierra Club). The two-way table summarizes the survey responses.

Do these data suggest that there is an association between environmental club membership and snowmobile use among visitors to Yellowstone National Park? Give appropriate evidence to support your answer.

Chapter 1.2 #52

Shakespeare

The histogram below shows the distribution of lengths of words used in Shakespeare’s plays. Describe the shape, center, and spread of this distribution.
Student survey A survey of a large high school class asked the following questions:

(i) Are you female or male? (In the data, male = 0, female = 1.)
(ii) Are you right-handed or left-handed? (In the data, right = 0, left = 1.)
(iii) What is your height in inches?
(iv) How many minutes do you study on a typical weeknight?

The figure below shows graphs of the student responses, in scrambled order and without scale markings. Which graph goes with each variable? Explain your reasoning.