

AP Statistics Section 1.1 Reading HW

1. An office supply catalog gives a description of bookshelves that includes the following variables. Which of these variables is categorical?

- A. The width of a bookshelf in inches
- B. The width of a bookshelf in feet
- C. The color of the bookshelf
- D. The height of a bookshelf in inches
- E. The weight of a bookshelf

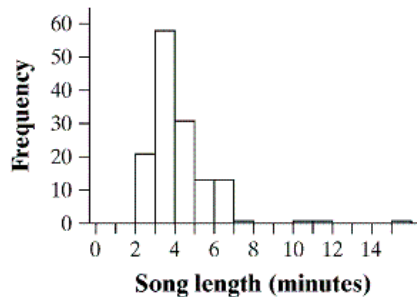
2. You measure the age, marital status and earned income of an SRS of 1463 women. The number and type of variables you have measured is

- A. 1463.
- B. four; two categorical and two quantitative.
- C. four; one categorical and three quantitative.
- D. three; two categorical and one quantitative.
- E. three; one categorical and two quantitative.

3. You open a package of plain M & M candies and count how many there are of each color. The distribution of the variable “candy color” is:

- A. The colors: Red, Orange, Green, Yellow, Brown, and Blue.
- B. The total number of candies in the package.
- C. Six—the number of different colors the are in the package.
- D. The six different colors and how many there are of each.
- E. Since “color” is a categorical variable, it doesn’t have a distribution

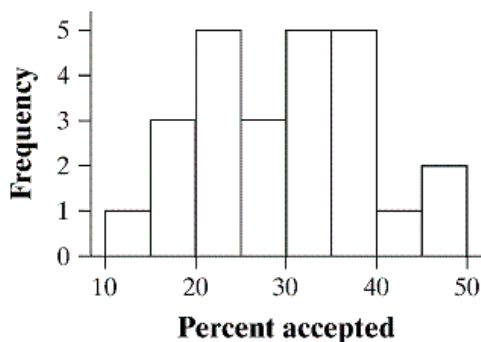
4. The histogram below show the length (in minutes) of 140 songs recorded by the band Wilco.



Which of the following descriptions best fits this distribution?

- A. Skewed right, centered at about 8, with several high outliers.
- B. Skewed left, centered at about 8, with several high outliers.
- C. Skewed right, centered at about 4.5, with several high outliers.
- D. Skewed left, centered at about 4.5, with several high outliers.
- E. Skewed left, centered at about 3.5, with several high outliers.

5. The following histogram represents the distribution of acceptance rates (percent accepted) among 25 business schools in 1997.



What percent of the schools have an acceptance rate of under 20%?

6. Page 15 question 1.4 (do only the dotplot). Then describe the features of the distribution.

7. Page 20 Questions 1.10 and 1.11