

ARRANGED HOUR FOR MATH 50

Math 50 – Section 3.1

Frequency Tables, Relative Frequency Tables,
and Bar Graphs

Name _____

Instructor _____

Date _____

1. Classify each of the following variables as qualitative (categorical) or quantitative (numerical).

- a) A teacher's annual salary. _____
- b) A U.S. senator's political affiliation. _____
- c) The weight of a computer, in pounds. _____
- d) Your college major. _____

2. A researcher surveys 16 students, asking each of them what their favorite fruit to eat as a snack is. Each of their responses is displayed in the table below.

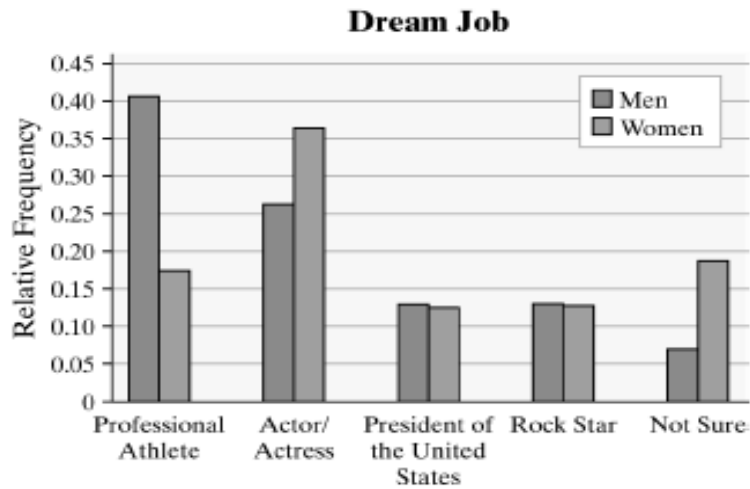
apple	mango	apple	mango	kiwi	mango	apple	mango
banana	apple	orange	kiwi	banana	mango	apple	kiwi

- a) Construct both a frequency table below and a relative frequency table, use 4 decimal places for your relative frequency:

- b) Construct a frequency bar graph; draw neatly and clearly label your axes:

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3. Consider the following side-by-side relative frequency bar graph below regarding dream jobs stated for people when asked in a survey. The results are shown by gender.
Source: *Marist Poll*.



Answer the following, write your answers in complete sentences and use units when appropriate.

- Approximately what proportion of the women answered that their dream job is to be a rock star?
- Which dream job did the largest proportion of men choose?
- Which dream job did the smallest proportion of women choose?
- Which dream job has the biggest difference between which Gender who wants that job and which Gender is more likely to want that as a dream job?
- If a total of 950 men responded to this survey, how many of them answered that their dream job is to become the president of the United States?