

Problem Set

Name _____

Date _____ Per _____

1. Consider the following results from 100 randomly selected students:
 - Of the 60 female students selected, 20 of them played intramural basketball, 10 played chess, and 10 were in the jazz band. The rest of them did not participate in the after-school program.
 - Of the male students, 10 did not participate in the after-school program, 20 played intramural basketball, 8 played in the jazz band, and the rest played chess.

A two-way frequency table to summarize the survey data was started. What label is needed in the table cell identified with a "???"

	Intramural Basketball	Chess Club	Jazz Band	???	Total
Female					
Male					
Total					

2. Complete the above table for the 100 students who were surveyed.

For each problem,

- a) Decide whether what is being asked is joint relative frequency, marginal relative frequency, or a conditional relative frequency.
- b) Find the relative frequency.
(Write it as a fraction, decimal, and a percent)

3. The number of participants in the Chess Club.
4. The number of males who were in the Jazz Band.
5. The number of females in the study.
6. The number of females given that they were in the chess club.
7. The number of students who did not participate at all.
8. The number of students that did not participate Given that they are male.
9. The number of female jazz band members.
10. The number of males that were part of chess club.

Frequency (3 forms) $3/25 = 0.12 = 12\%$	Type of Frequency Marginal
---	-------------------------------