Name_____ Date _____

## 5.3 Practice A

**In Exercises 1 and 2, complete the two-way table.**

1.

| | | Ran a Half Marathon | | |
|---|---|---|---|---|
| | | Yes | No | Total |
| **Role** | **Student** | 12 | | 124 |
| | **Teacher** | 7 | | |
| | **Total** | | 263 | |

2.

| | | Owns Dog | | |
|---|---|---|---|---|
| | | Yes | No | Total |
| **Owns Cat** | **Yes** | 24 | 61 | |
| | **No** | 107 | | |
| | **Total** | | | 226 |

3. In a survey, 112 people feel that the amount of fresh water allowed to empty into the salt water river should be reduced, and 87 people did not feel that the amount of fresh water allowed to empty into the salt water river should be reduced. Of those who feel that the amount of fresh water released should be reduced, 98 people fish the salt water river. Of those that do not feel that the amount of fresh water released should be reduced, 12 people fish the salt water river.

   a. Organize these results in a two-way table. Then find and interpret the marginal frequencies.

   b. Make a two-way table that shows the joint and marginal relative frequencies.

   c. Make a two-way table that shows the conditional relative frequencies for each fish category.