Name Date

Practice A

10.3

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

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

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

1.

2.

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.

Name Date

Practice B

10.3

In Exercises 1 and 2, use the two-way table to create another two-way table that shows the joint and marginal relative frequencies.

1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Surfing Style | |  |
|  |  | Regular | Advanced | Total |
| Gender | Male | 86 | 24 | 110 |
| Female | 77 | 18 | 95 |
|  | Total | 163 | 42 | 205 |

2.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Fishing License | |  |
|  |  | Yes | No | Total |
| Hunting License | Yes | 65 | 37 | 102 |
| No | 177 | 341 | 518 |
|  | Total | 242 | 378 | 620 |

3. In a survey, 5 people exercise regularly and 21 people do not. Of those who exercise regularly, 1 person felt tired. Of those that did not exercise regularly,   
1 person felt tired.

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 exercise category.