

## Two-way tables

1) Complete the following tables and hence answer the questions

a)

| Number of people who have pets | None | One or more pets | Total |
|--------------------------------|------|------------------|-------|
| Women                          | 22   |                  | 80    |
| Men                            |      | 24               |       |
| Total                          | 77   |                  |       |

- i) Did the survey ask an approximately equal number of women and men?
- ii) What proportion (fraction) of the people who had no pet were men?

b)

| Number of people in a pet club who own cats or dogs. (None have both cats and dogs). | One pet | Two or more pets | Total |
|--|---------|------------------|-------|
| Cats   | 12      | 58               | 70    |
| Dogs   | 32      | 18               | 50    |
| Total  | 44      | 76               | 120   |

- i) If I picked a pet club member at random, would they be more likely to own a cat or a dog?
- ii) What percentage of club members owned just one cat?
- iii) What percentage owned two or more dogs?
- iv) What percentage of dog owners had more than one dog?

c)

| Number of people who own cats or dogs. | One pet | Two pets | Three or more pets | Total |
|--|---------|----------|--------------------|-------|
| Cats                                   | 11      | 12       | 58                 | 71    |
| Dogs                                   | 28      | 2        | 18                 | 50    |
| Both cats and dogs                     | 5       | 28       | 3                  | 46    |
| Total                                  | 44      | 44       | 79                 | 167   |

2) Draw a table for the following information. (Draw up a table, fill in the known information, then complete the table just like question 1).

- a) One hundred people were asked if they liked red wine, 60 said yes, of whom 24 were women; three quarters of the people who did not like red wine were women.
- b) In another survey the same question was asked. 47 men and 18 women said they liked red wine; 35 people did not like red wine of who 11 were men.

i. What percentage (to two sig. fig.) of these women did like red wine?