Problems

Only one value had to be computed; the remaining three could be found by subtraction.

It was necessary to compute two expected values; four were found by subtraction.

It was necessary to compute four values; five were found by subtraction.

2. a.
$$\chi^2(1, N = 65) = 13.32, p < .01.$$

b.
$$\chi^2$$
 (2, $N = 103$) = 1.60, $p > .05$.

c.
$$\chi^2$$
 (4, $N = 182$) = 17.77, $p < .01$.

- 3. χ^2 (1, N = 132) = 11.68, p < .01. Left-handers were less likely to be aphasic than right-handers.
- **4.** χ^2 (1, N = 204) = 3.53, p > .05. Parental alcoholism was not significantly related to alcoholism of the participants in the study.
- 5. χ^2 (1, N = 50) = 25.92, p < .01. The monkey had generalized its learned response from objects to pictures of objects.
- **6.** χ^2 (2, N = 160) = 1.91, p > .05. Introversion–extroversion did not affect brand preference.
- 7. χ^2 (4, N = 170) = 103.11, p < .01. The grade assignment significantly departed from a normal distribution.
- **8.** χ^2 (1, N = 60) = 3.51, p > .05. High- and low-self-esteem students did not differ on the test of attitudes toward risk taking.
- 9. χ^2 (1, N = 28) = 11.57, p < .01. In physiological psychology, the professor scored significantly better than the departmental average.
- 10. χ^2 (1, N = 28) = 2.29, p > .05. In statistics, the professor did not score better than the departmental average.