

## AN INTRODUCTION TO CATEGORICAL DATA ANALYSIS, 2nd ed.

### SOLUTIONS TO SELECTED PROBLEMS for STA 4504/5503

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#### Chapter 1

1. Response variables are (a) Attitude toward gun control, (b) Heart disease, (c) Vote for President, (d) Quality of life.

2.a. nominal, b. ordinal, c. ordinal, d. nominal, e. nominal, f. ordinal

3.a. Binomial,  $n = 100$ ,  $\pi = 0.25$ .

b. The mean is  $n\pi = 25$  and the standard deviation is  $\sqrt{n\pi(1 - \pi)} = 4.33$ . 50 correct responses would be surprising, since 50 is  $z = (50 - 25)/4.33 = 5.8$  standard deviations above the mean of a distribution that is approximately normal.

4.a.  $Y$  is binomial for  $n = 2$  and  $\pi = 0.50$ . Thus,  $Y = 0$  with probability 0.25,  $Y = 1$  with probability 0.50, and  $Y = 2$  with probability 0.25. The mean is  $2(0.50) = 1.0$  and the standard deviation is  $\sqrt{2(0.50)(0.50)} = 0.71$ .

b.(i)  $P(Y = 0) = 0.16$ ,  $P(Y = 1) = 0.48$ ,  $P(Y = 2) = 0.36$ .

(ii)  $P(Y = 0) = 0.26$ ,  $P(Y = 1) = 0.48$ ,  $P(Y = 2) = 0.16$ .

c.  $f(\pi) = 2\pi(1 - \pi)$ .

d. From the plot or using calculus by taking the derivative and setting it equal to 0, the function  $f(\pi) = 2\pi(1 - \pi)$  takes its maximum value at  $\pi = 0.50$ .

5.a. 0.294. b.  $z = -14.9$ , P-value < 0.0001. Conclude that minority of population would say 'yes.'

c.  $p \pm 1.96\sqrt{p(1 - p)/n}$  is  $0.294 \pm 2.58(0.0123)$ , or (0.26, 0.32).

6.a.  $SE = 0$ , and the  $z$  statistic equals  $-\infty$ .

b. CI is (0, 0); no, in the population we expect some vegetarians, even if the proportion is small.

c.  $z = (0 - 0.50)/\sqrt{0.50(0.50)/25} = -5.0$ , P-value < 0.0001.

d. Note  $z = (0 - 0.133)/\sqrt{0.133(0.133)/25} = -1.96$ , so 0.133 is the null value that has a P-value of 0.05.

15.a.  $\sigma(p)$  equals the binomial standard deviation  $\sqrt{n\pi(1 - \pi)}$  divided by the sample size  $n$ .

b.  $\sigma(p)$  takes its maximum value at  $\pi = 0.50$  and its minimum at  $\pi = 0$  and 1. If  $\pi = 1$ , for instance, every observation must be a success, and the sample proportion  $p$  equals  $\pi$  with probability 1.

#### Chapter 2

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