

## Chapter 4 Solutions to Problems

1. A study is run to estimate the mean total cholesterol level in children 2-6 years of age. A sample of 9 participants is selected and their total cholesterol levels are measured as follows.

| 185 | 225 | 240       | 196 | 175     | 180 | 194 | 147 | 223 |
|-----|-----|-----------|-----|---------|-----|-----|-----|-----|
|     |     | $\bar{X}$ |     | $X^2$   |     |     |     |     |
|     |     | 147       |     | 21,609  |     |     |     |     |
|     |     | 175       |     | 30,625  |     |     |     |     |
|     |     | 180       |     | 32,400  |     |     |     |     |
|     |     | 185       |     | 34,225  |     |     |     |     |
|     |     | 194       |     | 37,636  |     |     |     |     |
|     |     | 196       |     | 38,416  |     |     |     |     |
|     |     | 223       |     | 49,729  |     |     |     |     |
|     |     | 225       |     | 50,625  |     |     |     |     |
|     |     | 240       |     | 57,600  |     |     |     |     |
|     |     | 1765      |     | 352,865 |     |     |     |     |

- a. Compute the sample mean.

$$\bar{X} = \frac{\sum X}{n} = \frac{1,765}{9} = 196.1$$

- b. Compute the sample standard deviation.

$$\begin{aligned}
 s &= \sqrt{\frac{\sum X^2 - (\sum X)^2/n}{n-1}} = \sqrt{\frac{352,865 - (1,765)^2/9}{9-1}} = \sqrt{\frac{352,865 - (3,115,225/9)}{8}} \\
 &= \sqrt{\frac{352,865 - 346,136.1}{8}} = \sqrt{\frac{6,728.89}{8}} = \sqrt{841.1} = 29.0
 \end{aligned}$$

- c. Compute the median.

$$\text{Median} = 194$$

- d. Compute the first and third quartiles.

$$Q_1 = 177.5 \text{ } ((175+180)/2) \qquad Q_3 = 224 \text{ } ((223+225)/2)$$

# Essentials Of Biostatistics Answer Key

**Robert R. Redfield**



## **Essentials Of Biostatistics Answer Key:**

## **Essentials Of Biostatistics Answer Key** Book Review: Unveiling the Power of Words

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