

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

Victor M. Corman



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Table of Contents Essentials Of Biostatistics Answer Key

1. Understanding the eBook Essentials Of Biostatistics Answer Key
 - The Rise of Digital Reading Essentials Of Biostatistics Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Essentials Of Biostatistics Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Essentials Of Biostatistics Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Essentials Of Biostatistics Answer Key
 - Personalized Recommendations
 - Essentials Of Biostatistics Answer Key User Reviews and Ratings

- Essentials Of Biostatistics Answer Key and Bestseller Lists
- 5. Accessing Essentials Of Biostatistics Answer Key Free and Paid eBooks
 - Essentials Of Biostatistics Answer Key Public Domain eBooks
 - Essentials Of Biostatistics Answer Key eBook Subscription Services
 - Essentials Of Biostatistics Answer Key Budget-Friendly Options
- 6. Navigating Essentials Of Biostatistics Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Essentials Of Biostatistics Answer Key Compatibility with Devices
 - Essentials Of Biostatistics Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Essentials Of Biostatistics Answer Key
 - Highlighting and Note-Taking Essentials Of Biostatistics Answer Key
 - Interactive Elements Essentials Of Biostatistics Answer Key
- 8. Staying Engaged with Essentials Of Biostatistics Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Essentials Of Biostatistics Answer Key
- 9. Balancing eBooks and Physical Books Essentials Of Biostatistics Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Essentials Of Biostatistics Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Essentials Of Biostatistics Answer Key
 - Setting Reading Goals Essentials Of Biostatistics Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Essentials Of Biostatistics Answer Key
 - Fact-Checking eBook Content of Essentials Of Biostatistics Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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