

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

Bernard J. Turnock



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