225 240

#### Chapter 4 Solutions to Problems

185

 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.

194

147

196 175

X	X2	
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.

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

b. Compute the sample standard deviation.

$$s = \sqrt{\frac{\Sigma X^2 - (\Sigma X)^2 / n}{n - 1}} = \sqrt{\frac{352,865 - (1,765)^2 / 9}{9 - 1}} = \sqrt{\frac{352,865 - (3,115,225/9)}{8}} = \sqrt{\frac{352,865 - 346,136 \cdot 1}{8}} = \sqrt{\frac{6,728 \cdot 89}{8}} = \sqrt{841 \cdot 1} = 29 \cdot 0$$

c. Compute the median.

Compute the first and third quartiles.

$$Q_1 = 177.5 ((175+180)/2)$$
  $Q_3=224 ((223+225)/2)$ 

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**Bernard J. Turnock** 

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