

Lesson 3 Homework Practice

Measures of Variation

ALL



1. Use the data in the table.

Weights of Black Bears (lb)									
277	448	279	334	132	599	237	251	183	191

a. Find the range of the data.

408

b. Find the median and the first and third quartiles.

Median = 264, Q1 = 191, Q3 = 334

c. Find the interquartile range.

143

d. Name any outliers in the data.

2. Use the data of average monthly precipitation in Johnstown shown in the table.

Monthly Precipitation

Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Inches	1.71	1.49	1.92	1.93	3.56	9.89	7.34	8.62	8.23	3.80	1.89	1.72

a. Find the range of the data.

8.4

b. Find the median and the first and third quartiles.

Median = 2.745, Q1 = 1.805, Q3 = 7.785

c. Find the interquartile range.

5.98

Lesson 3 Problem-Solving Practice

Measures of Variation

Use the table below that shows the winning scores in the Super Bowl.

Winning Super Bowl Scores, 1997–2008											
1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
35	31	34	23	34	20	48	32	24	21	29	17

<p>1. Explain how to find the range of the data. Then find the range.</p> <p>subtract the lowest score from the highest score; 31</p>	<p>2. Find the median, the first and third quartiles, and the interquartile range of the winning scores.</p> <p>Median = 30, Q1 = 22, Q3 = 34, IQR = 12</p>
<p>3. Describe how to find the limits for outliers. Then find the limits</p>	<p>4. Are there any outliers among the winning Super Bowl scores? If so, what are they? Explain your reasoning.</p>

Use the table showing the scores on a U.S. History test.

Scores on a U.S. History Test					
84	86	79	97	88	89
94	89	81	90	82	61
91	83	95	80	97	78

<p>5. Find the range, median, first and third quartiles, and the interquartile range of the test scores.</p> <p>Range = 36, Median = 87, Q1 = 81, Q3 = 91, IQR = 10</p>	<p>6. Are there any outliers in this data? Explain your reasoning.</p>
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