**Chapter 11 Practice Test**

1. Find the mean, median, and the mode of the given data set (3 pts)

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| **Number of Students** |
| 8 | 14 | 4 | 63 |
| 12 | 23 | 10 | 13 |
| 14 | 29 | 5 | 14 |

1. Find the first and third quartiles and the interquartile range of the data (3 pts)

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| **Number of CDs** |
| 9 | 7 | 15 | 10 | 4 | 16 |
| 8 | 7 | 17 | 5 | 18 | 22 |
| 12 | 19 | 14 | 6 | 13 | 20 |

1. Find the median and the mode of the following data set (2 pts)

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| **Test Scores** |
| 78 | 81 | 98 | 51 |
| 67 | 80 | 76 | 72 |
| 83 | 94 | 91 | 90 |
| 87 | 60 | 96 | 85 |

1. Serge had the following scores on his math tests last quarter: 97, 91, 87, 88, 87, 93, 100, and 71. Find the mean absolute deviation for the set of data. How many data values are closer than one mean absolute deviation away from the mean? (4 pts)
2. Consider the following data set (4 pts)

 a. Find the mean of the data set

|  |  |
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| **Falls** | **Height (ft)** |
| Bridal Veil | 780 |
| Horsetail | 197 |
| Latourell | 218 |
|  Metlako | 340 |
| Multnomah | 186 |
| Wahkeena | 179 |

b. What is the outlier in the data? Explain why you think it’s an outlier?

1. Remove the outlier from the data set and find the new mean.
2. How do the old mean and the new mean compare?