Lesson 4: Describing Quantitative Data; Center & Spread

Homework

## Solutions

**Please note that the steps show rounded numbers, but that the final answers to the problems are calculated without rounding.**

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| Problem | Part | Solution |
| 1 | - | The standard deviation is a measure of how spread out the data are. A larger standard deviation indicates that data are more spread out and less consistent than data that have a smaller standard deviation. |
| 2 | - | Box Plot C |
| 3 | - | $105,986.70 |
| 4 | - | c. The percentage of data is the same for both. |
| 5 | - | 4 hours |
| 6 | - | 14 hours |
| 7 | - | 2 and 4 hours |
| 8 | - | There is not enough information to answer this question. We need the original data to make this determination. |
| 9 | - |  |
| 10 | - |  |
| 11 | - |  |
| 12 | - |  |
| 13 | - |  |
| 14 | - | c. {0, 0, 10, 10} |
| 15 | - | b. The standard deviation will decrease. |