Lesson 3: Describing Quantitative Data: Shape

Preparation

## Solutions

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

|  |  |  |
| --- | --- | --- |
| Problem | Part | Solution |
| 1 | Mean | It is the adding up the observed data and dividing by the number of observations in the data set. |
| 1 | Median | The median is the middle value in a sorted data set |
| 1 | Mode | The most frequently occurring value |
| 2 | Company A | Mean: 21.276 Median: 13.433 Mode -48.837209 |
| 2 | Company B | Mean: 33.482 Median: 20.838 Mode -62.837689 |
| 2 | Company C | Mean: 41.122 Median: 25.558 Mode -71.050584 |
| 2 | Company D | Mean: 0.706 Median: 1.892 Mode -44.416873 |
| 2 | Company E | Mean: -1.084 Median: -3.796 Mode -39.686099 |
| 3 | - | HistA |
| 4 | - | Answers will vary but should talk about shape, center, and spread of the different graphs and data sets. |
| 5 | - | Answers may vary, students should choose a company and justify why. They will probably choose B or C, because they have the highest means. |