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| **Content: Math** | **Grade Level: 6th** |
| **Standard: 6.SP.5c**Summarize numerical data sets in relation to their context - e.g., giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data was gathered. |
| I can statements:* I can compute mean, median, and range.
* I can compute interquartile range.
* I can make a box-and-whisker plot for a set of data.
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| **Score 4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.** | **Sample Activities** |
| Susan has four 20-point projects for math class. Susan’s scores on the first 3 projects are shown below:* Project 1: 18
* Project 2: 15
* Project 3: 16
* Project 4: ??

What does she need to make on Project 4 so that the average for the four projects is 17? Explain your reasoning. |
|  | **3.5** | In addition to score 3.0 performance, in-depth inferences and applications with partial success. |  |
| **Score 3.0** | **The student can solve multistep problems involving properties of operations.****The student exhibits no major errors or omissions.** | What is the outlier? What measure does it affect the most?  |
|  | **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of the 3.0 content. |  |
| **Score 2.0** | **There are no major errors or omissions regarding the simpler details and processes. However, the student exhibits major errors or omissions regarding the more complex ideas and processes.** | Find the mean, median and range of the data:11, 12, 12, 12, 12, 12, 13, 28  Answer: mean = 16, median = 12, range = 17 |
|  | **1.5** | Partial knowledge of the 2.0 content, but major errors or omissions regarding the 3.0 content. |  |
| **Score 1.0** | **With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.** |
|  | **0.5** | With help, a partial understanding of the 2.0 content, but not the 3.0 content. |
| **Score 0.0** | **Even with help, no understanding or skill demonstrated.** |