

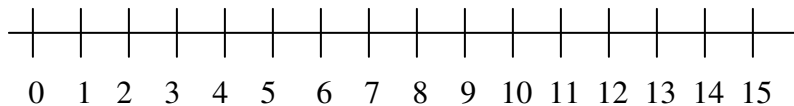
Partial credit is based on work shown!

7pts

1. A student has these scores on her quizzes for this semester.

4 5 10 11 11 12 13 14 15 15

- What is her **mean** score?
- What is her **median** score?
- What are the lower and upper quartiles?
- Using the scale below, make a **box plot** with whiskers to show the distribution of the scores.



6pts

- If the average teenage female weighs 130 pounds and the standard deviation of weights in this age group is 15 pounds, draw a sketch of the **normal distribution** (Include a % in each part of your sketch.)
 - Approximately what % of the girl's weights are within two standard deviations of the mean?
 - What **weight** would have a **z-score** of 2?
 - A z-score of 2 is what **percentile**?

2pts

- When comparing test results for two different classes, Mr. Jones determined that class 1 had a mean of 75 and standard deviation of 5 but class 2 had a mean of 80 and had a standard deviation of 9. What does this tell him about these classes?