Comparing Test Scores

In each of the problems below, assume two students took different standardized tests. Student A took Test I, and student B took Test II. Figure out which student did better in comparison to all of the other students who took the same test that they did. Be sure to justify your answers!!!!

1. Angela scored 59 on a test with a mean of 70 and a standard deviation of 20. Student Beniña scored 403 on a test with a mean of 375 and a standard deviation of 50.

2. Cal scored 113 on a test with a mean of 102 and a standard deviation of 11. David scored 260 on a test with a mean of 212 and a standard deviation of 24.

3. Ernie scored 21 on a test with a mean of 25 and a standard deviation of 2. Federico scored 620 on a test with a mean of 710 and a standard deviation of 30.

4. Gabrielle scored 67 on a test with a mean of 58 and a standard deviation of 7. Harriet scored 308 on a test with a mean of 256 and a standard deviation of 43.

5. Ignatius scored 24 on a test with a mean of 28 and a standard deviation of 3. Joseph scored 423 on a test with a mean of 475 and a standard deviation of 34.

6. Katia scored 18 on a test with a mean of 22.58 and a standard deviation of 3.7, Laurie scored 83 on a test with a mean of 106.73 and a standard deviation of 15.75

7. The concept we have been developing here is called the z-score. Describe the process for determining the z-score.