

Standard Deviation Practice

1000 freshman at a university took a college algebra test. The scores were distributed normally with a mean of 80 and a standard deviation of 7. Sketch a picture of the mean and three standard deviations from the mean.

1. What percentage of scores are between scores 80 and 101?
2. What percentage of scores are between scores 66 and 94?
3. What percentage of scores are between scores 73 and 87?
4. What percentage of scores is less than a score of 94?
5. What percentage of scores are greater than a score of 73?
6. Approximately how many students scored between 73 and 87?
7. Approximately how many students scored between 94 and 100?