

Normal Distribution Assignment

1. A group of students have texted an average of 350 times in the last week with a standard deviation of 50. 68% of the students sent what range of texts?
2. Last summers, students who worked earned an average of \$80 a week with a standard deviation of \$12. What percentage of students earned more that \$104 per week?
3. The 68% of students travel between 11 and 15 miles to get to school. What is the mean of the data and the standard deviation?
4. A group of students have an average height of 5'7" inches with a standard deviation of 2 inches. What percent of students are less than 5'3" inches?
5. The average heart rate for the YMCA class is 120 bpm with a standard deviation of 6 bpm. What percent of students have between 108 and 126 bpm?
6. The junior class downloaded an average of 54 songs last year. If 95% downloaded 24 and 84 songs, what is the standard deviation?
7. Mr. Smith and Mr. Juarez teach Algebra 2 and have a class average of 78%. Mr. Smith's class has a standard deviation of 4% while Mr. Juarez has a standard deviation of 7%. Compare the spread of these classes.

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