

To Do Now After 5.2

Name _____

1. The contents of a cereal box are normally distributed, with a mean of 20 ounces and a standard deviation of 0.07 ounces. What is the probability that a box has between 20.07 and 20.21 ounces?
2. Suppose that the average height of adult males in a particular locality is 70 inches with a standard deviation of 2.5 inches. If the distribution is a normal distribution, what is the probability that a person has a height below 62.5 inches?
3. The lifespan of a tire is normally distributed, with a mean of 30,000 and a standard deviation of 3000 miles. In a study of 500 tires, **how many** had a lifespan is between 27,000 and 36,000 miles?

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