


Name _____



Date _____

Decimals

Complete.

<p>1. Noah was using an electronic tuner (of his own design) to check the tuning of his cousin's guitar. He had previously tuned the guitar using a tone on a recording so that the A string vibrated at exactly 440 Hz (440 cycles per second). Now when he checked it using his tuner, the tuner indicated that the string was vibrating at 443.4 Hz. Assuming the string was actually tuned to 440 Hz, what was the percent error in his tuner? Round your answer to the nearest hundredth of a percent.</p>	<p>2. Dylan bought a very large star map for his bedroom wall. The map is round. Its radius is three feet. What is the circumference and area of the wall map?</p> 
<p>3. Clarita's sister works in an American company in Amarillo, Texas. She works thirty-six hours every week and is paid \$11.38 per hour. She sends half of her weekly salary to Clarita to take care of their mother. How much money does Clarita's sister send home each week?</p>	<p>4. Kayla and Matthew are planning a garden. Kayla said if they make the garden round it would look better. Matthew said if they make the garden square they will be able to plant more. They have enough space to make a round garden with a diameter of sixteen feet or a square garden with each side being sixteen feet. If they put three plants in each square foot of ground, how many more plants will they be able to plant in the square garden than they could plant in the round garden?</p>
<p>5. Cyrano de Bergerac had a prominent nose. As a matter of fact, it was so large that it was often the only thing people noticed about him. If one had to choose an adjective to describe Cyrano's nose, the best would be "tremendous!" Cyrano fell in love with a beautiful young woman, but knew she could never love someone so ugly. It's a long story, but in the end, Cyrano discovered that he was wrong. The young woman did love him. Cyrano's nose was fifteen centimeters long. $1 \text{ cm} = 0.39 \text{ in}$. How long was Cyrano's nose in inches? Round off your answer to the nearest tenth of an inch.</p>	<p>6. Samantha was the editor of the school newspaper. One of the writers had submitted a story about the food in a local restaurant. He wrote that the food wasn't edible and, as a matter of fact, would repel the rats in the neighborhood. As she thought about the article, she assembled copies of the paper. Inserting the inner pages and folding the copies helped her focus on the problem. If it took her 1.4 minutes to complete each copy, how many copies can she complete in two hours?</p>