*Area of Circles Practice*

**Directions:** For each of the following problems, find the exact and approximate area. Use your calculator’s value of $π$ and round your answers to the nearest hundredth. Be sure to show all calculations!!!

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1. Theo tied his dog, Flash, to a pole in the middle of the yard using a 10 foot leash. Flash dug holes in the yard everywhere his leash would allow him to go. Now, Theo has to re-seed the section of lawn that Flash destroyed. How much of the lawn does Theo have to re-seed?



1. The spray from a spinning lawn sprinkler covers a round section of the yard, which is 4.5 yards across. How much of the yard is getting watered by the sprinkler?



1. Luigi’s Pizza in Red Bluff, California sells a pizza that is 30 inches across! There is a cheese layer that covers the entire top of the pizza (including the crust). What area is covered in cheese?



Gloverville High School decides to replace its current track with a circular one. The entire track surface will be made of rubberized asphalt, and there will be a fence around the border. The distance across the center of the track is 187 yards. **How much rubberized asphalt is needed for the track?** Find the exact and approximate area. Use your calculator’s value of $π$ and round your answers to the nearest hundredth. Show all work!



Jodie finished swimming 50 meters laps across the center of a circular swimming pool, and now she has to cover the pool with a tarp. How big is the round tarp needed to cover the pool? Find the exact and approximate area. Use your calculator’s value of $π$ and round your answers to the nearest hundredth. Show all work!

