# LESSON <br> 20.4 <br> <br> Leveled Problem Solving <br> <br> Leveled Problem Solving Area of a Circle 

 Area of a Circle}

## CA Standards

UEY MG 1.1
MG 1.2
For use with pages 551-556

## Solve.

1. At the car show, Inez saw a truck wheel shaped like a circle with a radius of 3 feet. She knows that the area of a circle is $A=\pi r^{2}$. Using 3.14 for $\pi$, what should she calculate as the area of the truck wheel?
2. While he was drawing plans for a new invention, Patrick drew the circle shown. He wants to find its area using the formula $A=\pi r^{2}$, using $\frac{22}{7}$ for $\pi$. What is the circle's area?
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3. Bernardo skates at a circular rink that has a radius of 4 yards. If he uses 3.14 for $\pi$, what area would he estimate for the skating rink?
4. Juan is making a collage and puts together a circle made out of various pieces of construction paper. The circle has a diameter of 40 cm . If he uses 3.14 for $\pi$, what would he estimate for the area of his circle?
5. Juanita's circular table has a diameter of 4 feet. She wants to know the area of the table in terms of $\pi$. What is the area of her table?
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6. Alice has two flying disks. One is 12 cm in diameter and the other is 24 cm in diameter. Leaving the answer in terms of $\pi$, what is the difference in cubic centimeters between the areas of the two flying disks?

