

Leveled Problem Solving Area of a Circle CA Standards (III) 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 π , 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 π . What is the circle's area?



- **3.** Bernardo skates at a circular rink that has a radius of 4 yards. If he uses 3.14 for π , 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 π , 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 π . What is the area of her table?
- 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 π, what is the difference in cubic centimeters between the areas of the two flying disks?



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