

# Challenge Problems

## 9.3

NAME \_\_\_\_\_

Module 9 Characteristics of Geometric Shapes  
Lesson 3 Circles

### Set 1

- 1 Use a calculator to find the value of  $\frac{22}{7}$  to six decimal places. Using the  $\pi$  key on a calculator, find the value of  $\pi$  rounded to six decimal places. Then, order  $\frac{22}{7}$ ,  $\pi$ , and 3.14 from least to greatest.
- 2 Explain how to estimate the diameter of a tree trunk if its circumference is 60 inches.
- 3 Determine if this statement is true or false and explain: If the diameter of a circle is doubled, then the circumference is doubled.

# Additional Work Area