

Lesson 6.5 Homework

Name: \_\_\_\_\_

In Exercises 1-6, find exact answers (leave your answer in terms of  $\pi$ ).

- 1) If  $C = 5\pi$  cm, find  $d$ .
- 2) If  $r = 5$  cm, find  $C$ .
- 3) If  $C = 24$  m, find  $r$ .
- 4) If  $d = 5.5$  m, find  $C$ .
- 5) If a circle has a diameter of 12 cm, what is its circumference?
- 6) If a circle has a circumference of  $46\pi$  m, what is its diameter?

In Exercises 7-12, use a calculator. Round your answer to the nearest 0.1 unit. Use the symbol  $\approx$  to show that your answer is an approximation.

- 7) If  $d = 5$  cm, find  $C$ .
- 8) If  $r = 4$  cm, find  $C$ .
- 9) If  $C = 44$  m, find  $r$ .
- 10) What is the circumference of a bicycle wheel with a 27-inch diameter?



- 11) If the distance from the center of a Ferris wheel to one of the seats is approximately 90 feet, what is the distance traveled by a seated person, to the nearest foot, in one revolution?



- 12) If a circle is inscribed in a square with a perimeter of 24 cm, what is the circumference of the circle?

- 13) Calculate the measure of each lettered angle.

