Name: _____
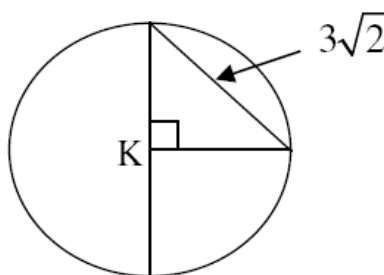
Circumference and Area of a Circle

Exercise 1: **The diameter of a nickel is 2 centimeters. What is the circumference?**

Exercise 2: **The circumference of a bicycle wheel is 50.24 inches. What is the diameter?**

Exercise 3: Find the missing value for each circle.

1) Find C if r = 13 inches.
2) Find C if d = 6 millimeters.
3) Find d and r if the circumference is 16π

Exercise 4: Find the exact circumference for the circle of center K.

Exercise 5: Find the circumference and the area of the circle:

1) $radius = 3$ 2) $diameter = 1$

3) $radius = 7$ 4) $diameter = 4$

5) $radius = 12$ 6) $diameter = 8$

7) $radius = 10$ 8) $diameter = \sqrt{2}$

9) $radius = 3\sqrt{2}$ 10) $diameter = 4\sqrt{2}$

11) $radius = \dfrac{1}{2}$ 12) $diameter = \dfrac{2}{3}$

Exercise 6: The circumference of a half dollar is about 96 millimeters. Find the diameter of the coin to the nearest tenth.

Exercise 7: A circular flower garden has a circumference of 20 feet. Find the radius of the garden to the nearest hundredth.