Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Filling and Wrapping***

**Investigation 3.1**

***ACE***

 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_

*Name the diameter & radius.*



2) Diameter: \_\_\_\_\_\_ 3) Diameter: \_\_\_\_\_\_

Radius: \_\_\_\_\_\_ or Radius: \_\_\_\_\_\_ or \_\_\_\_\_\_

\_\_\_\_\_\_ or \_\_\_\_\_\_

For Exercises 1–4, identify the lighter part of the circle as its circumference, diameter, or radius. Then, using a ruler, measure that part in centimeters



**1. 2.**

**3. 4.**

**5.** When you order a round pizza, you can often choose between 10”, 12”, and 16”.

These measurements are the pizza’s diameter. What would the radius be for each pizza?

|  |  |  |  |
| --- | --- | --- | --- |
| **Pizza diameter** | 10” | 12” | 14” |
| **Pizza radius** |  |  |  |

**6.** Draw three different diameters on the circle.

**a.** What is the measure, in centimeters, of each diameter?

**b.** What can you say about the measures of diameters in a circle?

**c.** Estimate the circumference of this circle using

the diameter measurements you found.

**7.** Draw three different radii on the circle. (RAY dee eye, the plural for radius).

**a.** What is the measure, in centimeters, of each radius?

**b.** What can you say about the measures of the radii in the
same circle?

**c.** Estimate the circumference of this circle using the radius
measurements you found.

**8.** Terrell says that when you know the radius of a circle, you can find the diameter by doubling the radius. Do you agree? Why or why not?

**9.** Enrique says that when you know the diameter of a circle you can find the radius. How can he find the length of a radius if he knows the length of the diameter?