

**Study the following.**

circle (**sur**-kuhl) – a perfectly round figure. (On his drawing he used two circles to show bicycle wheels.)

center (**sen**-tur) – the exact middle point of a circle. (The center was called Point D.)

radius (**ray**-dee-uhss) – on a circle, the distance from the center to the edge of the circle. (On his drawing of bicycle wheels, he drew a radius to show a spoke of the wheel.)

radii (**ray**-dee-eye) – plural of radius. (He drew 10 radii for the spokes of the bicycle.)

diameter (**dye-am**-uh-tur) – on a circle, the distance from one side to the other, passing through the center. (I drew a diameter of the circle, cutting it into two halves.)

**Say each word out loud and write it in the blank.**

circle \_\_\_\_\_  
center \_\_\_\_\_  
radius \_\_\_\_\_  
radii \_\_\_\_\_  
diameter \_\_\_\_\_

**Write each definition in your own words.**

circle

center

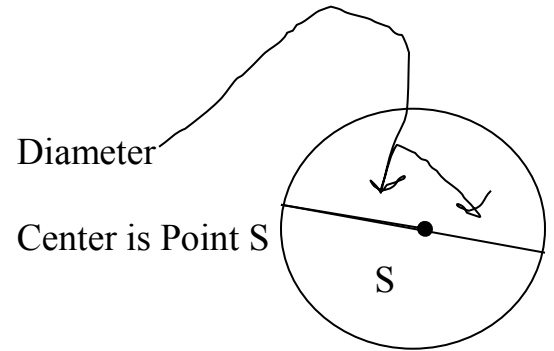
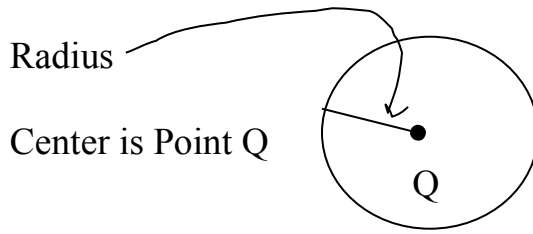
radius

radii

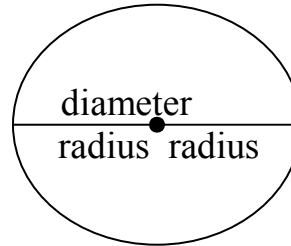
diameter

**Study the following.**

These are examples of circles.



The diameter is always made up of two radii.



**Write two sentences using each word.**

circle

1.

2.

center

1.

2.

radius

1.

2.

radii

1.

2.

diameter

1.

2.

**Matching.**

circle	the exact middle point of a circle
center	a perfectly round figure
radius	on a circle, the distance from one side to the other, passing through the center.
radii	on a circle, the distance from the center to the edge of the circle
diameter	plural of radius

**Draw a circle. Mark the center with the letter T.**

1.

**Draw a circle. Draw 6 radii in the circle.**

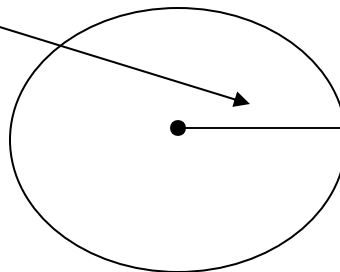
2.

**Draw a circle. Draw a diameter in the circle.**

3.

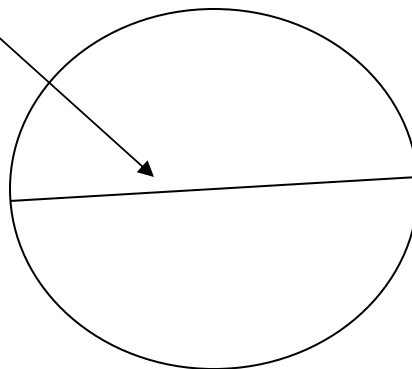
**What is this line called?**

4. \_\_\_\_\_



**What is this line called?**

5. \_\_\_\_\_



**Study the following.**

r – a small r means radius

d – a small d means diameter

**Fill in the blanks.**

1.  $r = 3\text{cm}$  means \_\_\_\_\_
2.  $d = 40\text{ft}$  means \_\_\_\_\_

**Study the following.**

The diameter is made up of two radii.  
This means the radius times 2 equals diameter.  
Also, the diameter divided by 2 equals radius.

Examples:

Radius = 30 miles     $30 \times 2 = 60$     so    Diameter = 60 miles

$d = 50\text{cm}$                      $50 \div 2 = 25$     so     $r = 25\text{cm}$

**Fill in the blanks.**

1. If the radius is 2 feet, the diameter is \_\_\_\_\_.
2. If the radius is 6 inches, the diameter is \_\_\_\_\_.
3. If the diameter is 14cm, the radius is \_\_\_\_\_.
4. If the diameter is 20in., the radius is \_\_\_\_\_.
5. If  $r = 3$  in,  $d =$  \_\_\_\_\_.

6. If  $d = 16$  meters, then  $r =$  \_\_\_\_\_.

