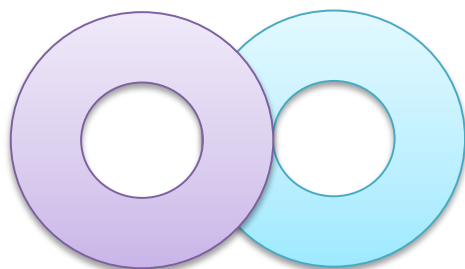# tutorified

Diameter and Radius and Their Relationship

1. Explain the relationship between diameter and radius of a circle.

   Solution:

2. The inner diameter of each of the CDs shown below is 5cm and the outer radii are 8cm. Find the diameter of the outer circle and radii of the inner circle of each CD.
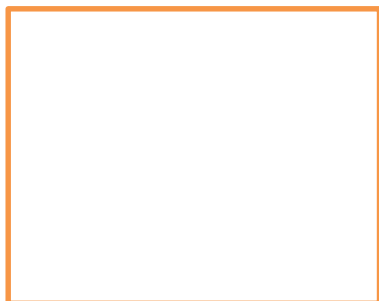
   Solution:

3. Use a compass to draw each of the following circles.
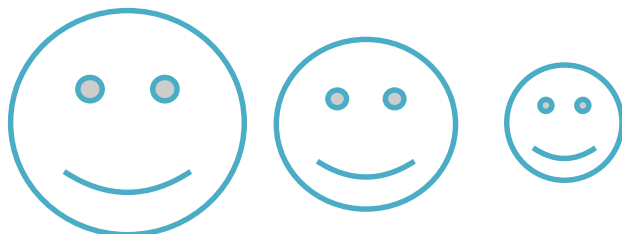   a. Radius = 4cm   b. Diameter = 10cm   c. Radius = 2.5cm

4. The diameter of the smallest smiley is 2 inches and the diameter of each successive smiley is 2 inches greater than the previous smiley. Find the sum of the radii of all three smileys.

   Solution:

5. True or False
   "A chord is a segment connecting the center of a circle to any point on the circle."

   Solution:

Diameter and Radius and Their Relationship

Answer Key

1. Diameter is twice the length of the radius of a circle
2. 21cm ; 2.5cm
3. Students should draw
4. 6 inches
5. False