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

Date\_\_\_\_\_\_Block\_\_\_\_

10-1, 10-2 & 11-3 Practice Worksheet

**1-2: The diameters of ⨀*L* and ⨀*M* are 20 and 13 units, respectively, and *QR* = 4. Find each measure.**



 **1.** LQ = \_\_\_\_\_\_\_\_**2.** *RM* = \_\_\_\_\_\_\_\_

**3-4: Find the diameter and radius of a circle with the given circumference. Round to the nearest hundredth.**

**3.** *C* = 21.2 ft r = \_\_\_\_\_\_\_\_\_\_ **4.** *C* = 5.9 m r = \_\_\_\_\_\_\_\_\_\_

 d = \_\_\_\_\_\_\_\_\_\_ d = \_\_\_\_\_\_\_\_\_\_

**5-6: Find the exact circumference and area of each circle using the given inscribed or circumscribed polygon.**



**5. 6.**

C = \_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_ C = \_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_

A = \_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_ A = \_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_

**7-10: Find the indicated measure. Round to the nearest tenth.**

**7.** The area of a circle is 3.14 square centimeters. Find the diameter.

**8.** Find the radius of a circle with an area of 855.3 square millimeters.

**9.** The area of a circle is 201.1 square inches. Find the Circumference.

**10.** Find the radius of a circle with a circumference of 2290.2 feet.

**11-13: Find the arc length and area of each shaded sector. Round to the nearest tenth.**

**11. 12. 13.**

**l** = \_\_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_ **l** = \_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_ **l** = \_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_

**A** = \_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_ **A** = \_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_ **A** = \_\_\_\_\_\_\_\_\_\_\_\_= \_\_\_\_\_\_\_\_\_\_\_

**14-18: Real-world Application problems.**

1. In thesymbol shown, a circle separated into 3 equal sectors, has come to symbolize peace.
Suppose the circle has radius *r*. What is the formula for the area of each sector?
2. Sadie wants to draw a clock face on a circular piece of cardboard. If the clock face has a diameter of 20 centimeters and is divided into congruent pieces so that each sector is 30°, what is the area of each piece?
3. Julie needs to cover the top and bottom of a can of soup with construction paper for her art project. Each circle has a diameter of 7.5 centimeters. What is the total area of the can that Julie must cover rounded to the nearest integer?
4. Herman purchased a sundial to use as his garden centerpiece. The diameter of the sundial is 9.5 inches.

**a.** Find the radius of the sundial.

**b.** Find the circumference of the sundial to the nearest hundredth.

1. A circular pool is surrounded by a circular sidewalk that is 3 feet wide. The diameter of the sidewalk and pool is 26 feet.



**a.** What is the diameter of the pool?

**b.** What is the area of the sidewalk and pool?

**c.** What is the area of the pool?