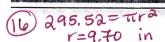
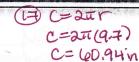
2 Day Name: Kei Use the properties of circles to solve problems **Exercise** MM2G3c involving the length of an arc and the area of a sector. Set A MM2G3d Justify measurements and relationships in circles using geometric and algebraic properties. Find the exact area of the circle. Then find the area to the A=T(10.5)2 nearest hundredth. r=12.4cm 248 cm A=483.05cma A=113.10 ina Find the indicated measure. The area of a circle is 173 square inches. Find the radius  $173 = \pi$ The area of a circle is 290 square meters. Find the radius. (r = 9.6) m 7.42CM The area of a circle is 52 square millimeters. Find the radius. 4:07 mm The area of a circle  $\frac{342}{342}$  square yards. Find the diameter. V = 10.43The area of a circle is 654 square centimeters. Find the diameter. r=14,43010 diameter= 28.86 cm The area of a circle is 528 square feet. Find the diameter. r=12.96ft 25.92ft Find the areas of the sectors formed by  $\angle ACB$ . 10. 12. 11. 2090 large mall 4 in. 130° 18 m S= 41.19 =1463.20 S=590,93 Use the diagram to find the indicated measure. **14.** Find the radius of  $\bigcirc H$ . **15.** Find the diameter of  $\bigcirc H$ . **13.** Find the area of  $\bigcirc H$ . H . 98  $A = 40.62 \text{ in.}^2$ A = 23.79 ft2  $A = 31.47 \,\text{m}^2$ r= 6.89 in r=6.83m Georgia High School Mathematics 2 232

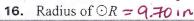




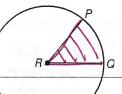


## Exercise Set A (continued)

The area of  $\bigcirc R$  is 295.52 square inches. The area of sector PRQ is 55 square inches. Find the indicated measure.



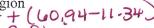
**16.** Radius of  $\bigcirc R = 9.70$  in **17.** Circumference of  $\bigcirc R = 60.94$  in



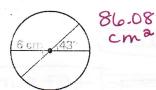
18. 
$$\widehat{mPO} = (Q7^{\circ})$$

19. Length of 
$$\widehat{PQ} = 11.3 \text{ Him}$$

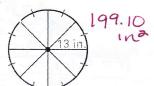
18. mPQ = 6720. Perimeter of shaded region 21. Perimeter of unshaded region 9.7 + 9.7 + (60.94 - 11.34) 9.7 + 9.7 + (60.94 - 11.34)9,7+9,7+11,34=30,74in



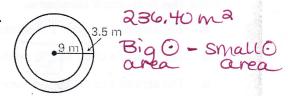
22.



23.



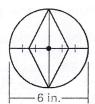
24.



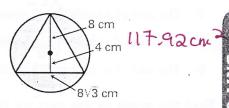
25.



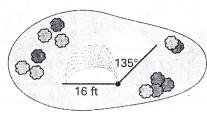
26.



27.



- 28. Fountain A circular water fountain has a diameter of 42 feet. Find the area of the fountain. 1385.44fta
- 29. Landscaping The diagram below shows the area of a lawn covered by a water sprinkler.



- **a.** What is the area of the lawn that is covered by the sprinkler? 301.59 + 201.5
- **b.** The water pressure is lowered so that the radius is 10 feet. What is the area of lawn that will be covered? 117-81 ft2
- 30. Window Design The window shown is in the shape of a semicircle. Find the area of the glass in the shaded region. 10.60 m2

