

Name:

Date:

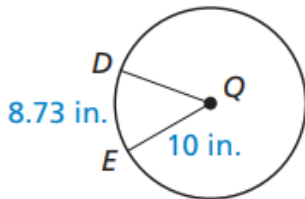
Period:

HW #11-1

1. Find the diameter of a circle that has a circumference of 63 feet. Round to hundredth.

2. Find the circumference of a circle with a diameter of 5 feet. Exact answer.

3. Find $m\widehat{DE}$. Round to hundredth.



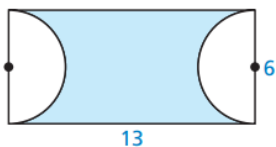
4. Find the radius of the circle. Round to hundredth.



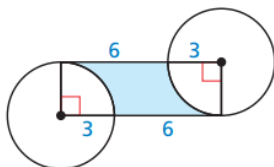
5. You ride your bicycle 40 meters. How many **complete** revolutions does the front wheel make? (the radius of the wheel is 32.5 cm)



6. Find the perimeter of the shaded region. Round to hundredth. (*hint: two sides of the shaded region are two semicircles*)



7. Find the perimeter of the shaded region. Round to hundredth. (*hint: two sides of the shaded region are two quarter circles*)



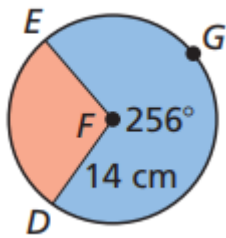
8. Find the circumference of the circle with the equation $(x + 2)^2 + (y - 3)^2 = 9$. Exact answer.

9. Find the area of a circle with a diameter of 16 feet. Exact answer.

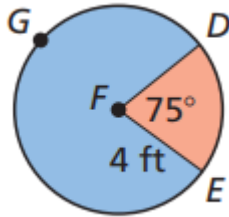
10. Find the radius of a circle with an area of 380 in^2 . Round to hundredth.

11. Find the diameter of a circle with an area of $676\pi \text{ cm}^2$. Exact answer.

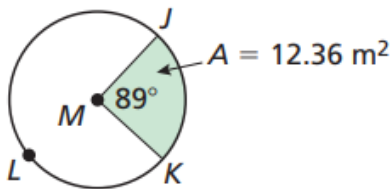
12. Find the area of the small sector formed by $\angle DFE$. Round to hundredth.



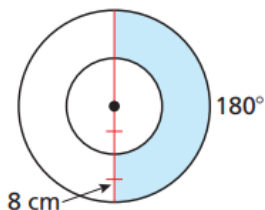
13. Find the area of the large sector formed by $\angle DFE$. Exact answer. (*hint: don't calculate in π ...also use the " $F \Leftrightarrow D$ " button on your calculator*)



14. Find the radius of the circle. Round to hundredth.



15. Find the area of the shaded region. Round to hundredth. (*hint: big semicircle – small semicircle*)



16. Your friend claims that if the radius of a circle is doubled, then its area doubles. If your friend is correct? Explain your reasoning (*hint: make your own circle, find its area. Double that radius, find the area. Then compare. Is your friend correct?*)