

Find the circumference of each circle. Leave your answers in terms of π .



- **20.** The wheels on Reggie's bike each have a 20-in. diameter. His sister's mountain bike has wheels that each have a 26-in. diameter. To the nearest inch, how much farther does Reggie's sister's bike travel in one revolution than Reggie's bike?
- **21.** A Ferris wheel has a 50-m radius. How many kilometers will a passenger travel during a ride if the wheel makes 10 revolutions? Round your answer to the nearest tenth of a kilometer.
- **22.** The marching band has ordered a banner with its logo. The logo is a circle with a 45° central angle. If the diameter of the circle is 3 ft, what is the length of the major arc to the nearest tenth?

Name		Class	Date	
40.0	Practice (continued)			Form G
10-6	Circles and Arcs			

Circles and Arcs

Find the length of each darkened arc. Leave your answer in terms of π .



Find each indicated measure for $\odot Y$



37. In $\bigcirc B$, the length of \widehat{ST} is 3π in. and \widehat{mST} is 120. What is the radius of $\bigcirc B$?

Algebra Find the value of each variable.

38.





39.