

# Central Angles and Inscribed Angles

**I Can** determine the measures of central angles, inscribed angles, and arcs of a circle.

## Spark Your Learning

An outdoor amphitheater has semicircular rows of seating around a semicircular stage. The tickets for the next performance have been sold out.



**Complete Part A as a whole class. Then complete Parts B–C in small groups.**

- A.** What is a mathematical question you can ask about this situation?  
What information would you need to know to answer your question?
- B.** To answer your question, what strategy and tool would you use along with all the information you have? What answer do you get?
- C.** Does your answer make sense in the context of the situation?  
How do you know?



**Turn and Talk** How much space would each attendee have if only  $\frac{3}{4}$  of all tickets are sold? Explain.