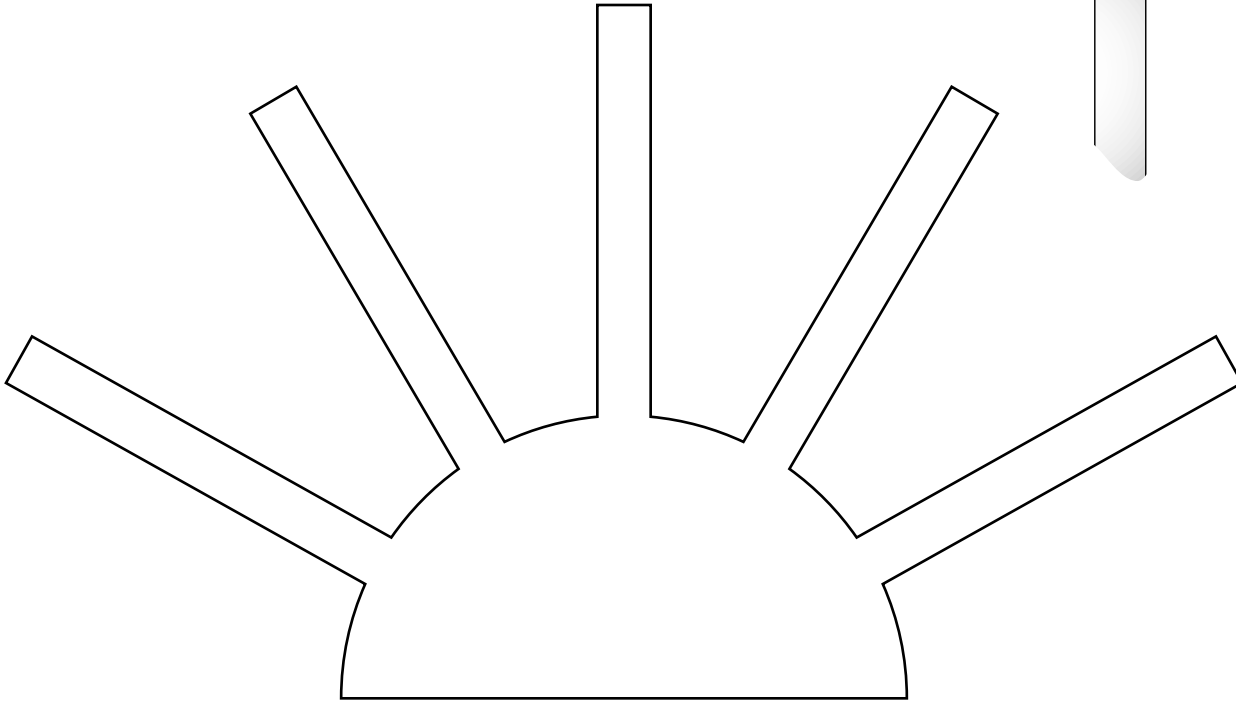


## School-to-Career Activity

(Use with Lesson 1-1)

### Room Numbers at Daylight Inn

Daylight Inn has adopted a new design for their hotels. Each will have a semicircular main lobby and hallways off the lobby, in much the same shape as their logo. An outline of their logo is shown below.



The corporate decision-makers at Daylight Inn need to develop a numbering system for the rooms that will allow any business traveler to learn the system and therefore, be able to immediately identify the location of his or her room, before they arrive or even when they make their reservation.

A prototype of the hotel is under construction. It will have nine floors, five spokes, and ten rooms in each spoke. Please suggest at least three methods of numbering the rooms in this hotel. Provide an explanation of each numbering system and a rationale for why a traveler would be able to easily remember this system.