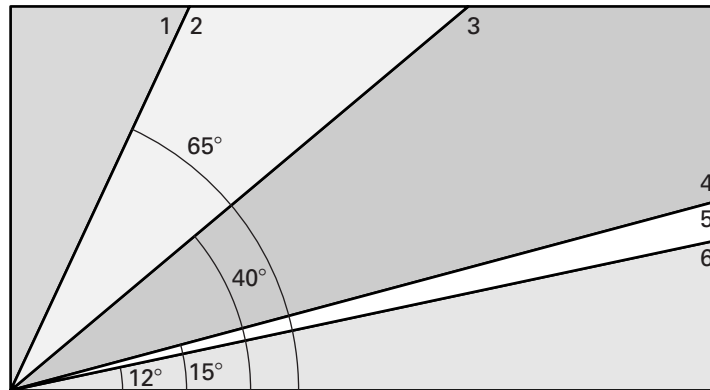NAME _____ DATE _____

Real-Life Application:
When Will I Ever Use This?

For use with pages 194–201

Seychelles

Seychelles is a country off the eastern coast of Africa that consists of about 90 islands. Suppose you are doing a report on Seychelles and want to construct a replica of their national flag. You make the flag rectangular and use a protractor to draw the angles in the lower left corner as shown below.

1. How many acute triangles are in the flag? How many obtuse?
2. Does the number of acute triangles in the flag equal the number of right triangles?
3. Find the measures of ∠5 and ∠6. Which theorem did you use to obtain your answers?
4. Explain two methods you could use to find the measure of ∠1.
5. Find the measures of ∠2, ∠3, and ∠4.