In Exercises 1–7, use a compass and straightedge to complete the construction.

1. Construct an equilateral triangle. Then construct the circumscribed circle and the inscribed circle.

2. Make a copy of $\triangle ABC$. Construct the circumscribed circle.

3. Make another copy of $\triangle ABC$. Construct the inscribed circle.

4. Make a copy of $\triangle DEF$. Construct the circumscribed circle. What do you notice?

5. Make another copy of $\triangle DEF$. Construct the inscribed circle.

6. Make a copy of $\triangle GHI$. Construct the circumscribed circle.

7. Make another copy of $\triangle GHI$. Construct the inscribed circle.

8. Describe the procedure for constructing the circumscribed circle for a triangle.

9. Describe the procedure for constructing the inscribed circle for a triangle.