

# Fractals and Other Patterns (pages 24–27)

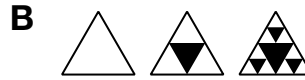
You probably encounter many geometric patterns every day without realizing it. Many quilts and fabrics have alternating patterns of geometric shapes. A **fractal** is a geometric pattern that is made up of smaller and smaller replicas of the same shape.

## EXAMPLES

Identify the pattern. Is the pattern a fractal?



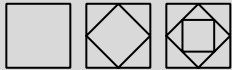
The smaller square moves clockwise to each corner of the larger square. The pattern is not a fractal.



The centers of the sides of each white triangle are connected to form a black triangle. The pattern is made up of smaller and smaller replicas of the same shape, so it is a fractal.

### Try This Together

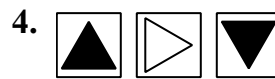
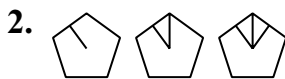
1. Draw the next figure in the pattern.



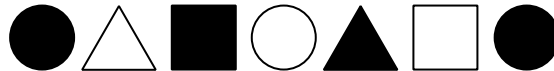
HINT: Insert another square.

## PRACTICE

Draw the next two figures that continue each pattern.



5. **Standardized Test Practice** What is the next figure in the following pattern?



Answers: 1–4. See Answer Key. 5. C