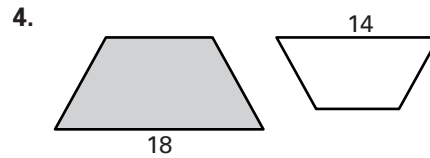
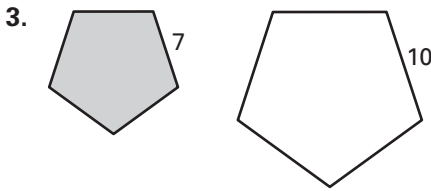
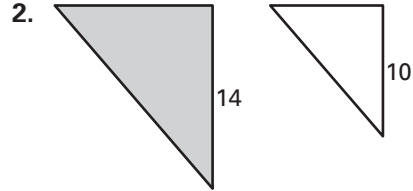
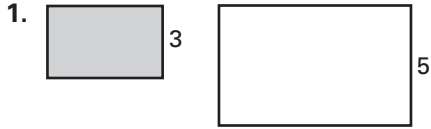


Practice B

For use with pages 677–682

The polygons shown are similar. Find the ratio (shaded to unshaded) of their perimeters and of their areas.



Solve.

- The ratio of the lengths of corresponding sides of two similar polygons is 3:7. What is the ratio of their areas?
- The ratio of the areas of two similar triangles is 32:24. What is the ratio of the lengths of corresponding sides?
- A regular hexagon has an area of 60 square centimeters. Find the scale factor of this hexagon to a similar hexagon that has an area of 96 square centimeters.
- The ratio of the lengths of corresponding sides of two similar triangles is 5:12. The smaller triangle has an area of 24 square centimeters. What is the area of the larger triangle?

In Exercises 9–15, use the diagram of the garden and a ruler.

The scale is 1 millimeter to 0.5 meter.

- Use a ruler to approximate the dimensions of the scale garden including the wall.
- Find the dimensions of the actual garden.
- What is the area of the scale garden?
What is the area of the actual garden?
- What is the area of the scale fountain?
What is the area of the actual fountain?
- Find the combined area of both scale flower boxes.
What is the area of the actual flower boxes?
- Find the total scale area inside the walk.
What is the total actual area inside the walk?
- Find the actual area of the grass inside the garden.

