Objectives
Use the Area Addition Postulate to find the areas of composite figures.
Use composite figures to estimate the areas of irregular shapes.

Vocabulary

Practice B
Composite Figures

Find the shaded area. Round to the nearest tenth if necessary.
1.  

Estimate the area of each shaded irregular shape.
The grid has squares with side lengths of 1 cm.
10.  

Find the shaded area of the composite figure. Round the answer to the nearest tenth if necessary.
2.  

5. Based on your answers to Exercises 1–4, sketch what you think a short section of intestinal wall with several microvilli would look like.

In Exercises 6 and 7, find each shaded area of the regular polygons. Round to the nearest hundredth.
6.  

8. The regular polygons in Exercises 6–9 were inscribed in circles. Now imagine regular polygons that are circumscribed around circles. Describe the trend in the difference between the areas of a circumscribed polygon and a circle as the number of sides increases. Explain your answer.

Find the area of each figure. Round to the nearest tenth.
9.  

10.  

Practice: Computing Area of Composite Figures
4. Find the area of the shape. Round your answer to the nearest hundredth.

5. Use a composite figure to estimate the shaded area. The grid has squares with side lengths of 1 ft.

6. Use a composite figure to estimate the shaded area. The grid has squares with a side length of 1 ft.

7. Mike is remodeling his kitchen. The countertop he wants costs $2.70 per square foot. How much will Mike have to spend on his remodeling project?