10-3 Solve It!



10-3 Lesson Quiz

1. What is the area of the regular pentagon below?



- **2.** What is the length of the apothem of a regular hexagon with 10-cm sides? Round to the nearest tenth if necessary.
- **3.** Do you UNDERSTAND? Geoff uses hexagonal tiles to make a tessellation pattern in his garden. What is the area of each tile? Round to the nearest whole number.



Answers

Solve It!

The shape should be a regular polygon with 12 sides (dodecagon), where each side is 3 ft long. Explanations may vary. Sample: A regular dodecagon has a larger area than an equilateral triangle, a square, or any other polygon that can be formed using the 12 pieces of wood and its shape is closer to the shape of a circle, which has the largest area for the fixed perimeter 36 ft.

Lesson Quiz

- **1.** 21 yd²
- 2. about 8.7 cm
- **3.** about 76 in.²

Prentice Hall Geometry • Solve It/Lesson Quiz on Transparencies Copyright © by Pearson Education, Inc., or its affiliates. All Rights Reserved.