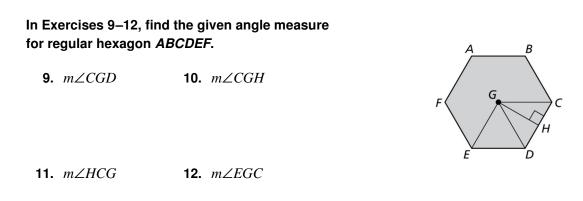
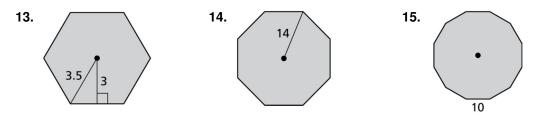
11.3 Practice A

In Exercises 5–8, find the measure of a central angle of a regular polygon with the given number of sides. Round answers to the nearest tenth of a degree, if necessary.

5. 9 sides **6.** 16 sides **7.** 20 sides **8.** 28 sides



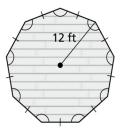
In Exercises 13–17, find the area of the regular polygon.



16. a pentagon with an apothem of 7 centimeters

17. a decagon with a radius of 20 meters

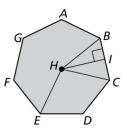
- **18.** Use the figure of the gazebo floor.
 - **a.** An arm rail is built around the perimeter of the gazebo. What is the length of the arm rail?
 - A container of wood sealer covers 200 square feet. How many containers of sealer do you need to cover the entire floor of the gazebo? Explain your reasoning.



11.3 Practice B

In Exercises 5–8, find the given angle measure for regular heptagon *ABCDEFG*. Round your answer to the nearest tenth of a degree, if necessary.

5. $m \angle BHC$ **6.** $m \angle BHI$



7. $m \angle IBH$ **8.** $m \angle EHB$

Find the area of heptagon *ABCDEFG*.

11.3 Practice A

1. 202.5 squar	re units 2. 5	4 square units
3. 126 square	units 4. 1	20 square units
5. 40°	6. 22.5°	7. 18°
8. 12.9°	9. 60°	10 . 30°
11. 60°	12. 120°	

- **13.** 32.4 square units
 14. 554.4 square units

 15. 1119.6 square units
 16. 178 cm²
- **17.** 1175.6 m²
- 18. a. about 73.9 ft
 - b. 3 containers; The area of the floor is about 416.5 square feet. Because 416.5 ÷ 200 ≈ 2.08 and you cannot buy part of a container, you will need 3 containers of wood sealer.

11.3 Practice B

- **1.** 285.25 square units **2.** 110.36 square units
- **3.** 252.5 square units **4.** 384 square units
- **5.** 51.4° **6.** 25.7° **7.** 64.3°
- 8. 154.3° 9. 27.5 square units