

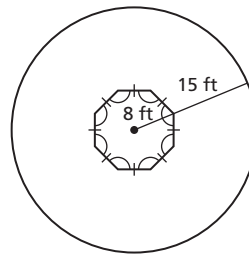
# Answers

## 11.3 Practice A

1. 202.5 square units
2. 54 square units
3. 126 square units
4. 120 square units
5.  $40^\circ$
6.  $22.5^\circ$
7.  $18^\circ$
8.  $12.9^\circ$
9.  $60^\circ$
10.  $30^\circ$
11.  $60^\circ$
12.  $120^\circ$
13. 32.4 square units
14. 554.4 square units
15. 1119.6 square units
16.  $178 \text{ cm}^2$
17.  $1175.6 \text{ m}^2$
18. a. about 73.9 ft
- b. 3 containers; The area of the floor is about 416.5 square feet. Because  $416.5 \div 200 \approx 2.08$  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.  $51.4^\circ$
6.  $25.7^\circ$
7.  $64.3^\circ$
8.  $154.3^\circ$
9. 27.5 square units
10. 8.7 square units
11. 3.9 square units
12. 16 ft, 48 ft
13. 22 mm, 44 mm
14. a. *Sample answer:*



- b.  $1481 \text{ ft}^2$
15. yes; One side length of the 11-gon is  $\frac{16.5}{11} = 1.5$  meters. The length of the apothem  $a$  is  $a = \frac{0.75}{\tan 16.4^\circ}$ . So,  $A = \frac{1}{2} \left( \frac{0.75}{\tan 16.4^\circ} \right) (16.5) \approx 21$  square meters.