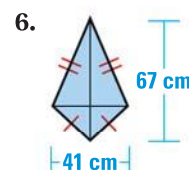
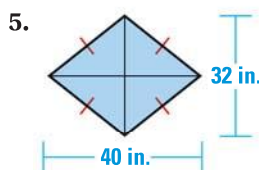
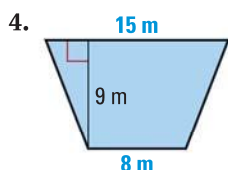
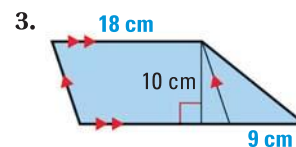
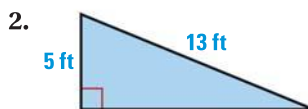
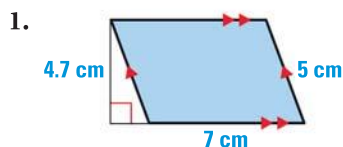


11 CHAPTER TEST

In Exercises 1–6, find the area of the shaded polygon.

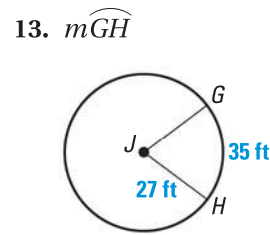
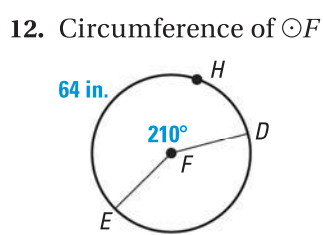
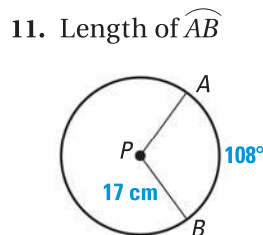


7. The base of a parallelogram is 3 times its height. The area of the parallelogram is 108 square inches. Find the base and the height.

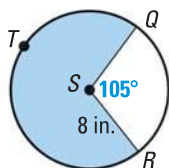
Quadrilaterals $ABCD$ and $EFGH$ are similar. The perimeter of $ABCD$ is 40 inches and the perimeter of $EFGH$ is 16 inches.

8. Find the ratio of the perimeters of $ABCD$ to $EFGH$.
9. Find the ratio of the corresponding side lengths of $ABCD$ to $EFGH$.
10. Find the ratio of the areas of $ABCD$ to $EFGH$.

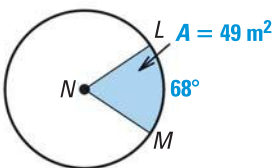
Find the indicated measure for the circle shown.



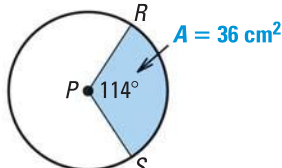
14. Area of shaded sector



15. Area of $\odot N$



16. Radius of $\odot P$



17. **TILING** A floor tile is in the shape of a regular hexagon and has a perimeter of 18 inches. Find the side length, apothem, and area of the tile.

Find the probability that a randomly chosen point in the figure lies in the region described.

18. In the red region
19. In the blue region

