## Area of Regular Polygons

COMMON CORE STANDARD—6.G. 1
Solve real-world and mathematical problems involving area, surface area, and volume.

Find the area of the regular polygon.
1.

2.

4.

$\qquad$
number of congruent triangles inside the figure: $\qquad$ area of each triangle: $\frac{1}{2} \times \underline{8} \times \underline{7}=\underline{28} \mathrm{~mm}^{2}$
area of hexagon: $168 \mathrm{~mm}^{2}$
3.

5.

7. A dinner platter is in the shape of a regular decagon. The platter has an area of 161 square inches and a side length of 4.6 inches. What is the area of each triangle? What is the height of each triangle?

