

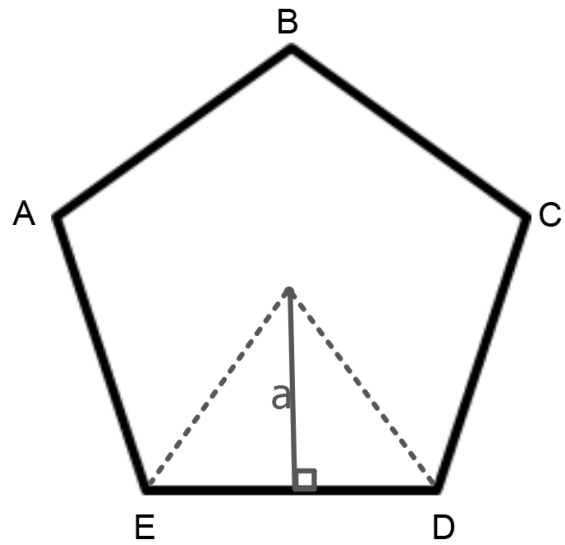
\***Apothem** - a segment drawn from the center of a regular polygon perpendicular to a side of the polygon.

\*A **central angle** of a regular polygon has its vertex at the center and its sides pass through consecutive vertices of the polygon.

\*The measure of each central angle of a regular n-gon is  $\frac{360}{n}$ .

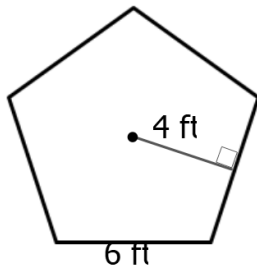
**Area of a Regular Polygon**

$$A = \frac{1}{2}aP$$

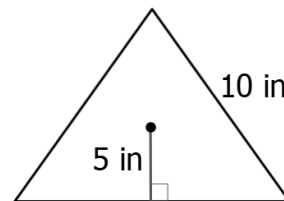


**Example 1:** Find the area of each regular polygon. Round to the nearest tenth.

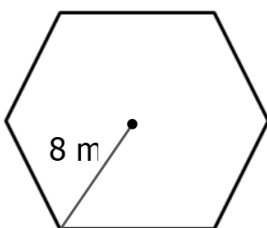
1.



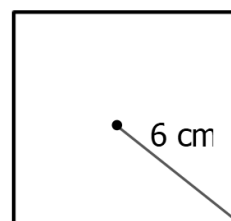
2.



3.

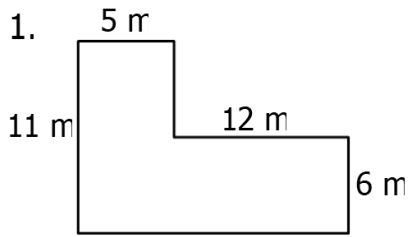


4.

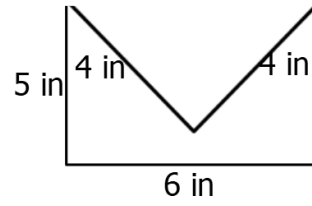


**Example 2:** Find the area of each composite figure or shaded region. Round to the nearest tenth.

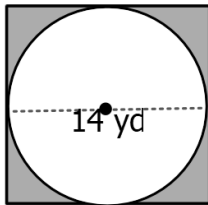
1.



2.



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