

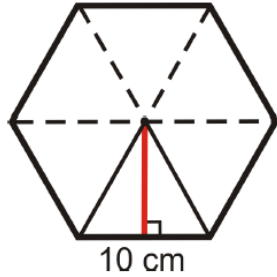
**9.4 Area and Perimeter of Regular Polygons**

**Geometry**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

Use the regular hexagon below to answer the following questions. Each side is 10 cm long.



1. Each dashed line segment is a(n) \_\_\_\_\_.
2. The red line segment is a(n) \_\_\_\_\_.
3. There are \_\_\_\_\_ congruent triangles in a regular hexagon.
4. In a regular hexagon, all the triangles are \_\_\_\_\_.
5. Find the radius of this hexagon.
6. Find the apothem.
7. Find the perimeter.
8. Find the area.

Find the area and perimeter of each of the following regular polygons. Round your answer to the nearest hundredth.

