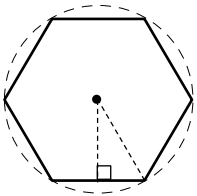
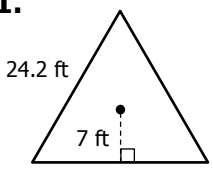
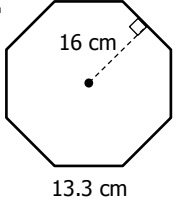
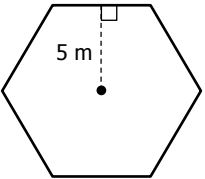
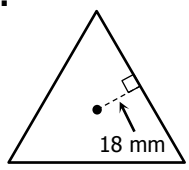
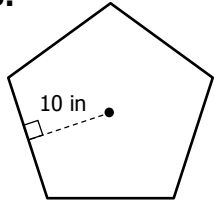
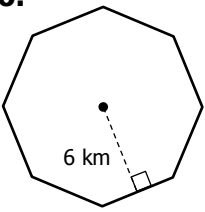


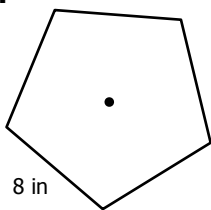
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes
AREA of a REGULAR POLYGON	Parts of a Regular Polygon: - The distance from the center of a polygon to any side is called the _____. - The _____ of a regular polygon is the distance from the center to a vertex. Formula for Area of a Regular Polygon: $A = \frac{1}{2}ap$ a = apothem p = perimeter 

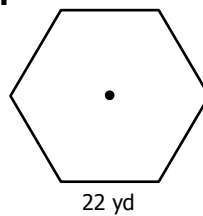
Examples: Find the area of each regular polygon.

1. 	2. 
<i>Steps to find the apothem and/or side length.</i>	① Create a right triangle by drawing the apothem and radius. ② Find the measure of the interior angle where the radius intersects the vertex. Use the interior angles sum formula ($S = (n - 2) \cdot 180$), then divide by n, then by 2. ③ Use special right triangles (45°-45°-90°/30°-60°-90°), or trigonometry (SOH CAH TOA) to find the apothem and/or side lengths.
3. 	4. 
5. 	6. 

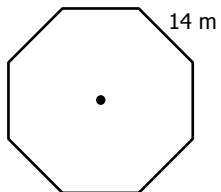
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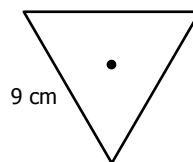
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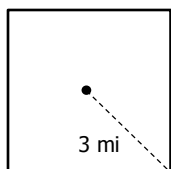
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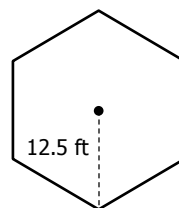
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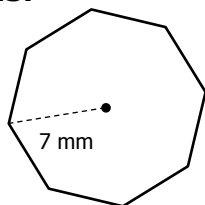
11.



12.



13.



14.

