TOPIC 15-2: PERIMETER & AREA OF REGULAR POLYGONS

TERM	DEFINITION
Radius	
Apothem	

To find the area of a regular polygon:

ARegular Polgyon =

EXAMPLE 1: Find the perimeter and area of the equilateral triangle.





A = _____

EXAMPLE 2: Find the perimeter and area of the regular triangle.



EXAMPLE 3: Find the area of an equilateral triangle that has a perimeter of $45\sqrt{3}$ cm.

EXAMPLE 4: A regular triangle has an apothem with a length of 2 ft. Find its perimeter and area.



EXAMPLE 5: Find the perimeter and area of the regular polygon.



EXAMPLE 7: Find the perimeter and area of the regular polygon.



P = _____

EXAMPLE 8: A regular hexagon has a perimeter of 78 cm. Find its area.

A = _____
EXAMPLE 9: Find the perimeter and area of the regular polygon below.

$$P = _____A = _____A$$

EXAMPLE 10: Find the perimeter and area of the square below.





A = _____