

Chapter 11 Review

Do you know the definitions of ...

Base of a polygon?	
Altitude of a polygon?	
Height of a polygon?	
Regular polygon?	
Inscribed figure?	
Center of a regular polygon?	
Radius of a regular polygon?	

Do you know the definitions of ...

Central angle of a regular polygon?	
Apothem of a regular polygon?	
Measure of an arc?	
Length of an arc?	
Sector area?	
Scale factor?	
Classical probability?	

Do you know the formulas for ...

Area of a square?	
Area of a rectangle?	
Area of a parallelogram?	
Perimeter of a parallelogram?	
Area of rhombus?	
Area of a triangle?	
Circumference of a circle?	
Area of a circle?	

Do you know the formulas for ...

Area of a regular polygon inscribed in a circle?	
Area of a trapezoid?	
Length of an arc?	
Area of a sector?	
Ratio of perimeters based on scale factor?	
Ratio of areas based on scale factor?	
Calculating linear probability?	
Calculating regional probability?	

Pattern Right Triangles?

- Pattern right triangles can also be seen as RATIOS!
 - The Pythagorean Triples (based on lengths of sides)
 - $3x: 4x: 5x$
 - $5x: 12x: 13x$
 - $8x: 15x: 17x$
 - $7x: 24x: 25x$
 - The Special Right Triangles (based on angles)
 - 45-45-90
 - Based on sides $\rightarrow 1x: 1x, \sqrt{2}x$
 - 30-60-90
 - Based on sides $\rightarrow 1x: \sqrt{3}x: 2x$

Find the values for the rectangles.

			$54\sqrt{2}$	7
b			$3\sqrt{2}$	$2x$
h				$x - 3$
A				

	9	11	13	15
b	9	16	$a + 3$	x
h	4		$a - 3$	
A				$x^2 - 3x$
p		42		