Geometry, you learned (or will learn) how to calculate the exterior angle of any regular-polygon. In this lesson you will ve a series of regular figures. We want to take a second to make sure understand the math behind this.		
We'll take it one figure at a time:		
a. Sum of the interior angles in a triangle: 180° b. Measure of each interior angle: c. Measure of each exterior angle: d. Sum of the exterior angles:		
Step 2: Scratch It Now draw the triangle.		
Step 3: The Square:		
a. Measure of each interior angle:		

Beauty and Joy of Computing: Drawing Regular Figures

Step 4: Scratch It ... Now draw the squure

b. Measure of each exterior angle: \_\_\_\_\_c. Sum of the exterior angles: \_\_\_\_\_

Step 5: Putting it together:

- a. What do you notice about the sum of the exterior angles in the triangle and square:
- b. How is the sum of the exterior angles, the number of sides, and the measure of each exterior angle related:

Step 6: Extend to any figure ...

. Given what you figured out in Step 5, finish the chart

# sides	Sum of Exterior Angles	Measure of exterior angle
3		
4		
5		
6		
7		
8		
9		
10		
1000		
n		

Step 7: Scratch It ... Draw the figures above

Step 8: The five-sided star is tougher ... think about what regular-polygon would circumscribe the five-pointed star.