

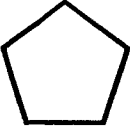

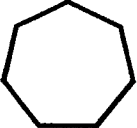
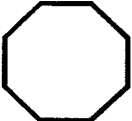

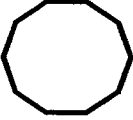


Name _____

Date _____

Will it Tessellate?

Regular polygon shape	Name of regular polygon	Number of sides	Does it tessellate?	Why?
				
				
				
				
				
				
				
				

Your thinking...

Please answer in detail the following question. Use pictures and labels if necessary to explain your thinking.

Which shapes tessellate and why?

The Questions

Part 1: Tilings

Question 1: Which regular polygons tile the plane? How do you find them?

Question 2: What are some examples of semi-regular tilings? How do you find them?

Question 3: Could you find all semi-regular tilings? What would you do to find them? What would convince you that you have them all?

Question 4: How many regular polygons can fit around a vertex? What is the greatest number? What is the least?

Question 5: