Discovery: Special Parallelograms

- 1. What do you know about the sides and angle measurements of a rectangle?
- 2. What do you know about the sides and angle measurements of a rhombus?
- 3. What do you know about the sides and angle measurements of a square?

In this discovery, we are going to investigate the properties of the diagonals of rectangles, rhombuses, and squares using objects found in everyday life.

a.	What object do you have?						
	This is a (circle one) s	quare	rhombus	rectangle			
	Its diagonals measure	cm and		_ cm.			
	Measure the angle that the di	diagonals make when they cross each other.					
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and	Vertex	: 2: and				
	Vertex 3: and	Vertex	: 4: and				
b.	. What object do you have?						
	This is a (circle one) s	quare	rhombus	rectangle			
	Its diagonals measure	cm an	d	_cm.			
	Measure the angle that the diagonals make when they cross each other.						
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and	Vertex	2: and				
	Vertex 3: and	Vertex	: 4: and				
c.	What object do you have?						
	This is a (circle one) s	quare	rhombus	rectangle			
	Its diagonals measure	cm an	d	_ cm.			
	Measure the angle that the diagonals make when they cross each other						
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and	Vertex	2: and				
	Vertex 3: and	Vertex	4: and				

Name			Date	Period			
d.	What object do you have?						
	This is a (circle one)	square	rhombus	rectangle			
	Its diagonals measure	cm	and	cm.			
	Measure the angle that the diagonals make when they cross each other.						
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and Vertex 2: and						
	Vertex 3: and	Ver	tex 4: and				
e.	What object do you have?						
0.	This is a (circle one)	square	rhombus	rectangle			
	Its diagonals measure	cm	and	cm.			
	Measure the angle that the diagonals make when they cross each other.						
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and Vertex 2: and						
	Vertex 3: and	Ver	tex 4: and				
f.	What object do you have?						
	This is a (circle one)	square	rhombus	rectangle			
	Its diagonals measure	cm	and	cm.			
	Measure the angle that the diagonals make when they cross each other						
	Measure the two angles that are formed when the diagonals meet each vertex.						
	Vertex 1: and	Ver	tex 2: and	5			
	Vertex 3: and	Ver	tex 4: and				
Drawi	ng Conclusions						
1.	What can you conclude about the diagonals of a rhombus?						
	,	C					
2.	What can you conclude at	out the diago	onals of a rectar	ngle?			
3.	What can you conclude at	out the diago	onals of a squar	e?			