Exploring Triangles Activity

Name _____ **Group** _____

Directions: In this activity you will discover how important sides are in determining the classification of triangles by angle type. Obtain a triangle activity packet and a ruler from your teacher and then follow the instructions below in order. Remember to write down your results and answers.

1. Each packet contains six numbered strips of paper of different sizes. Measure each strip in inches and write down its measurement on the lines below:

   Strip #1: _____ Strip #4: _____

   Strip #2: _____ Strip #5: _____

   Strip #3: _____ Strip #6: _____

2. Pick the three smallest strips. Determine if a triangle can be made using the strips. Use both top corners of a strip or both bottom corners but not one top and one bottom. If a triangle can be made, observe the type of the largest angle. Use the table below to record your data.

3. Make as many attempts as possible to create triangles by selecting three strips at a time and making the corners touch. Record each attempt on the table.

Write down the measurements of each side.			Could a triangle be formed?		If a triangle could be formed, indicate the largest angle type.		
Small	Medium	Large	Yes	No	Acute	Right	Obtuse

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