**Parallelograms w/ Boards Activity**

*In this activity you will make cuts and take measures of various boards. You will put them together as a quadrilateral to see the properties of each parallelogram.*

1) Take the first set of boards and cut each end off at a 45 degree angle. Place them together in a quadrilateral; what shape is formed?

Take measurements and list all of the properties you can find. (including angle measures and parallel lines)

SHAPE:

2) Take the second set and again cut each end off at 45 degree angle. Place them together in a quadrilateral; what shape is formed?

Take measurements and list all of the properties you can find. (including angle measures and parallel lines )

SHAPE:

3) Take the third set and cut one pair of boards off at 60 degree angles on each end and the other set at 30 degrees on each end. Place them together in a quadrilateral; what shape is formed?

Take measurements and list all of the properties you can find. (including angle measures and parallel lines)

SHAPE:

4) Take the fourth set and cut one pair of boards off at 60 degree angles on each end and the other set at 30 degrees on each end. Place them together in a quadrilateral; what shape is formed?

Take measurements and list all of the properties you can find. (including angle measures and parallel lines)

SHAPE:

5) Summarize what you can about the relationship between the opposite angles and the consecutive angles in a parallelogram.

6) Summarize what you can about the relationship between the sides in a parallelogram.

7) Measure the diagonals; what can you say about that relationship in each parallelogram?