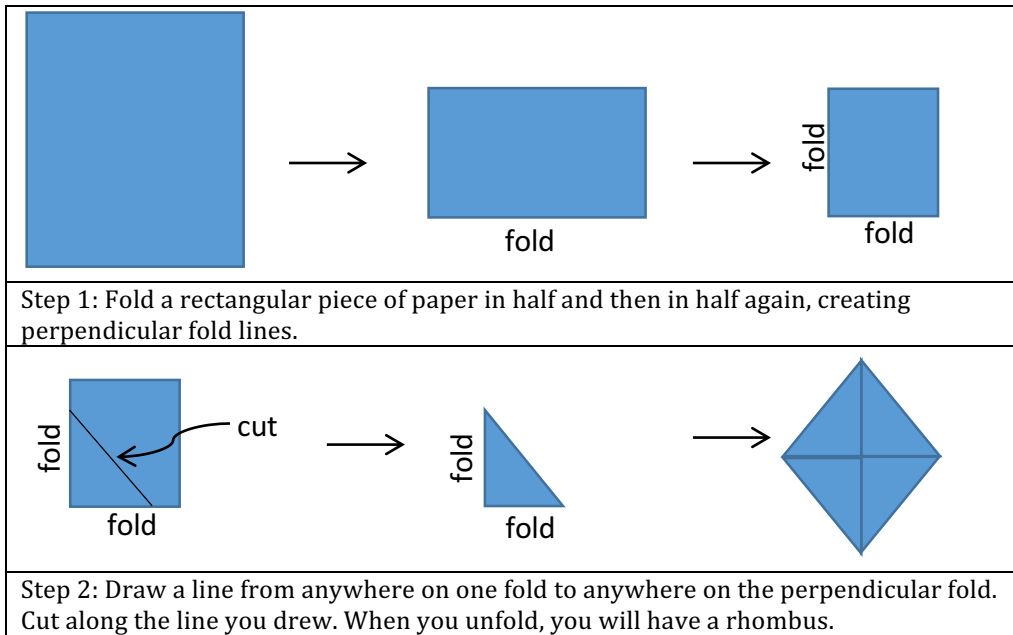


**Activity 1: Folding Rhombuses**

You will need a piece of paper and scissors for this activity.

To create a rhombus, follow the next set of instructions:



1. By referring to the definition of a rhombus, explain *why* the method described must always create a rhombus.
  
2. What properties does your rhombus have? Find as many as you can.



**Activity 3: Quadrilateral Classifications**

Complete the following charts about special quadrilaterals.

In this first table, if it is not true that ALL adjacent sides/angles are congruent, but certain PAIRS of adjacent sides/angles are congruent, write "Pairs." Otherwise, write "Yes" if the statement is always true and "No" if the statement is sometimes or never true.

|                     | Opposite Sides Congruent? | (Pairs of) Adjacent Sides Congruent? | Opposite Angles Congruent? | (Pairs of) Adjacent Angles Congruent? |
|---------------------|---------------------------|--------------------------------------|----------------------------|---------------------------------------|
| Quadrilateral       |                           |                                      |                            |                                       |
| Parallelogram       |                           |                                      |                            |                                       |
| Rhombus             |                           |                                      |                            |                                       |
| Rectangle           |                           |                                      |                            |                                       |
| Square              |                           |                                      |                            |                                       |
| Trapezoid           |                           |                                      |                            |                                       |
| Isosceles Trapezoid |                           |                                      |                            |                                       |
| Kite                |                           |                                      |                            |                                       |

Write "Yes" if the statement is true and "No" if the statement is sometimes or never true.

|                     | Diagonals Bisect Each Other? | Diagonals Congruent? | Diagonals Perpendicular? | Diagonals Bisect Opposite Angles? |
|---------------------|------------------------------|----------------------|--------------------------|-----------------------------------|
| Quadrilateral       |                              |                      |                          |                                   |
| Parallelogram       |                              |                      |                          |                                   |
| Rhombus             |                              |                      |                          |                                   |
| Rectangle           |                              |                      |                          |                                   |
| Square              |                              |                      |                          |                                   |
| Trapezoid           |                              |                      |                          |                                   |
| Isosceles Trapezoid |                              |                      |                          |                                   |
| Kite                |                              |                      |                          |                                   |