1. Using the usual math class definitions of squares, rectangles, rhombi and parallelograms, and the inclusive definition of trapezoids, draw a Venn diagram showing how all of those shapes relate to each other.
2. Using the usual math class definitions of squares, rectangles, rhombi and parallelograms, and the exclusive definition of trapezoids, draw a Venn diagram showing how all of those shapes relate to each other.
3. Tell a reason why mathematicians prefer the inclusive definitions for shapes.
4. If you know that all parallelograms have diagonals that bisect each other, what other type(s) of quadrilaterals can you be sure have this same property?
5. If you know that all rectangles have diagonals that are of equal length, what other type(s) of quadrilaterals can you be sure have this same property?
6. What is a property that is true of the diagonals of rhombi that is not true of rectangles?
7. Define:

Square
Rectangle (the math class definition)
Rhombus
Parallelogram

