1. Shawna and Michael are packing for summer camp. They are classifying shapes and come across a shape with six straight sides. Shawna says it’s a hexagon because it has six sides. Michael says it is a polygon because it has straight sides. Who is correct? Explain your reasoning.

2. A student is writing the definitions for some shapes. Identify any errors, and then correct the definition.
   a. Acute isosceles triangle – A four-sided shape with equal sides and all acute angles.
   b. Rectangle - A parallelogram with four sides two and all obtuse angles.

3. Sinead is categorizing shapes for an art project, and asks you to check her work. She needs to identify all the subgroups for a shape. Sinead says that a kite has subgroups of rhombus and square, and that a square has a subgroup of trapezoid. Is Sinead correct? Explain and correct any errors.
   a. Kite
   b. Square

4. Mary is working on a project, and decides to draw concave polygons. She notices that all the concave polygons she draws can be cut into at least two convex polygons. Is Mary’s observation true for all concave polygons? Why or why not?

5. John says triangles and quadrilaterals are both the same because they are all polygons. Do you agree?