



Practice – Part 1

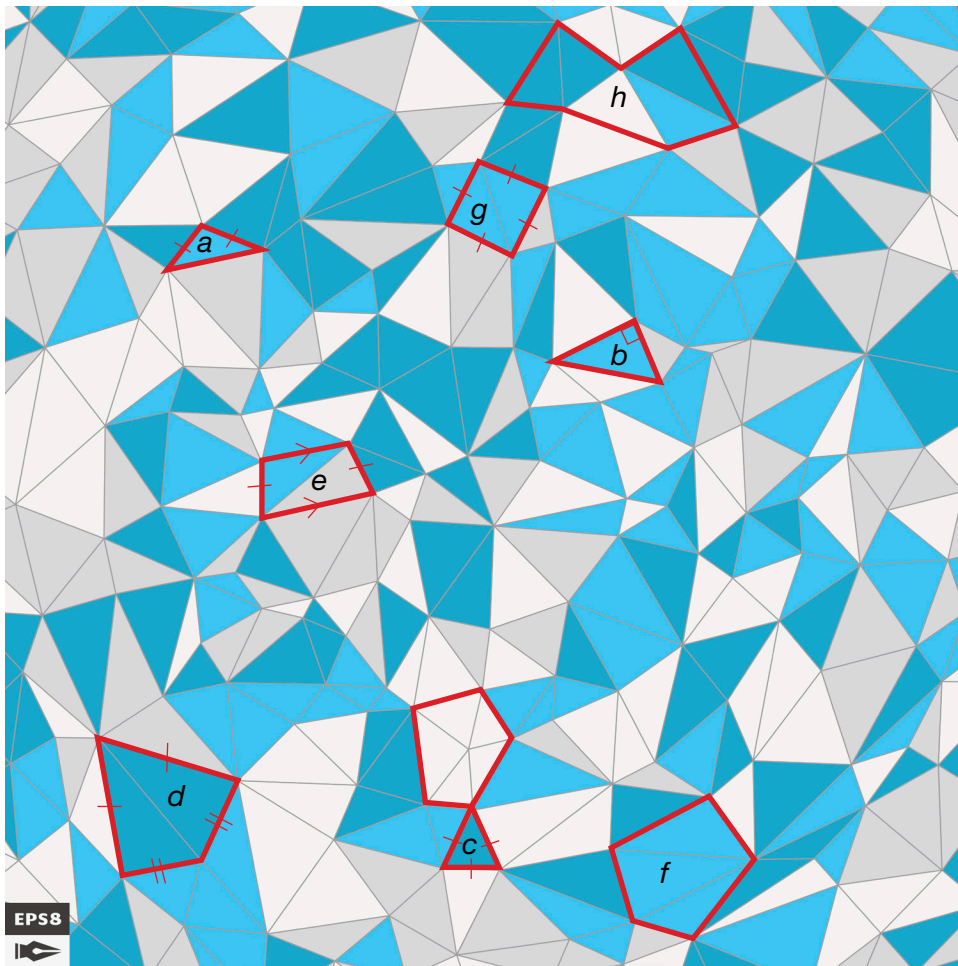
Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers under the Solutions tab in Moodle.

1. The art piece is made up of triangles. Triangles can be combined to form different types of polygons. The polygon outlined in the art piece is a hexagon, since it has six sides.

Take a moment to find several different types of polygons in the art piece.



Answer the following questions for the polygons identified in the art piece.



a. Identify each triangle below by side lengths (scalene, isosceles, equilateral) **and** angle measures (acute, right, obtuse).

i. Figure *a*



ii. Figure *b*

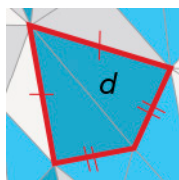


iii. Figure *c*



b. Name each of the following polygons that are found in the art piece.

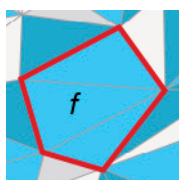
i. Figure *d*



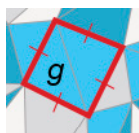
ii. Figure *e*



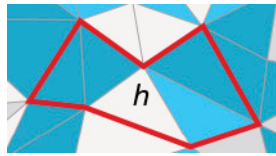
iii. Figure *f*



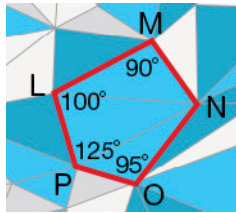
iv. Figure *g*



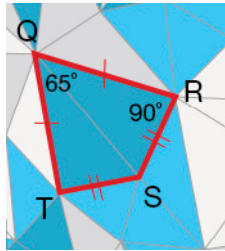
v. Figure h



c. Find $\angle N$ in the polygon below.



d. Find $\angle T$ and $\angle S$ in the outlined polygon.



e. Find $\angle X$ in the outlined triangle.

