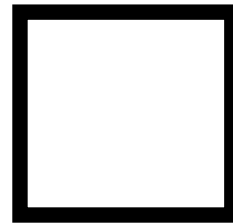
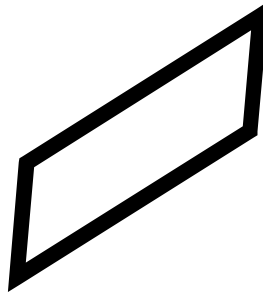
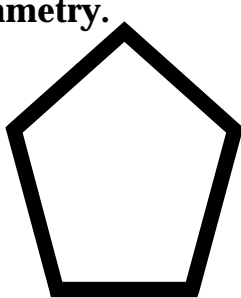


Turn On to Geometry (5 - 6)

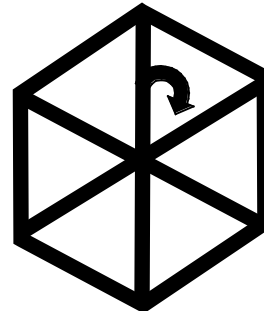
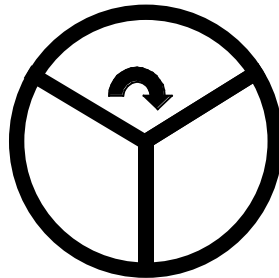
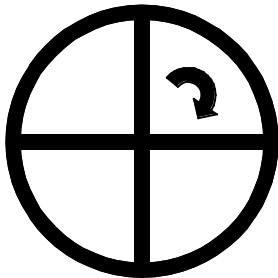
Name _____

Read each problem carefully. Answer as many as you can.
Write answers clearly. You may write on this test.

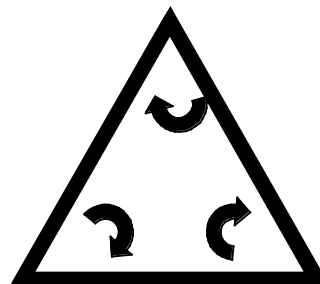
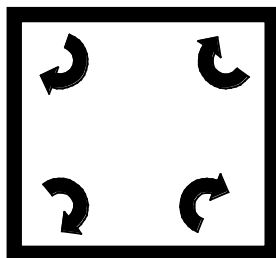
1. If the polygons below have lines of symmetry, draw all lines of symmetry.



-
2. Each figure is divided into equal parts. For the indicated angles, write the number of degrees on the line under each shape.

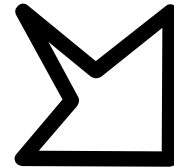
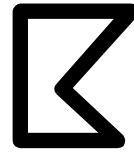
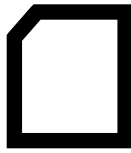
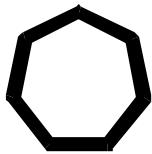
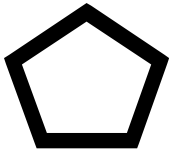


-
3. Write the total number of degrees for the vertex angles for each shape.

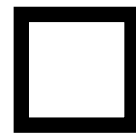
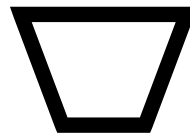
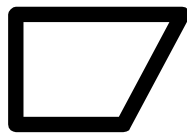


4. Circle all of the polygons that are correctly described by the word in each section.

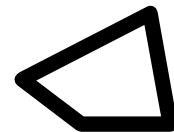
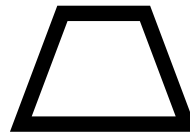
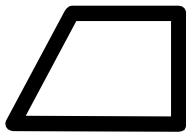
a. pentagon



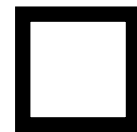
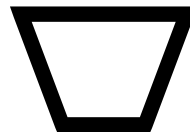
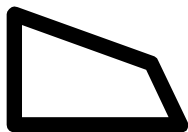
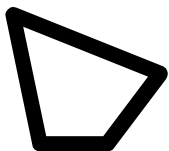
b. parallelogram



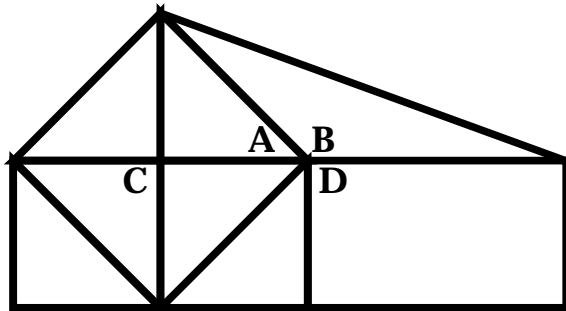
c. trapezoid



d. quadrilateral



5. In the design below, estimate the angle measures. Write your estimates on the spaces next to the letters that identify the angles.



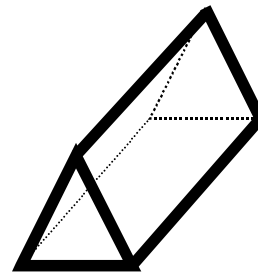
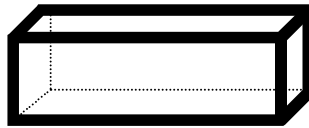
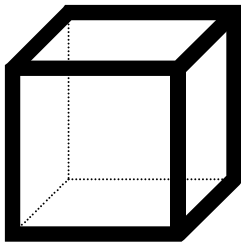
A. _____

B. _____

C. _____

D. _____

6. Circle all words that best describe all figures below.



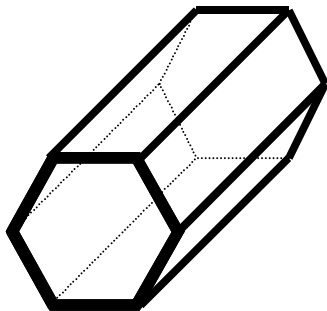
prisms

pyramids

polygons

polyhedrons

7. Put numbers beside the terms to indicate how many of each of the polygon shapes are needed to build the three-dimensional figure below.



triangles _____

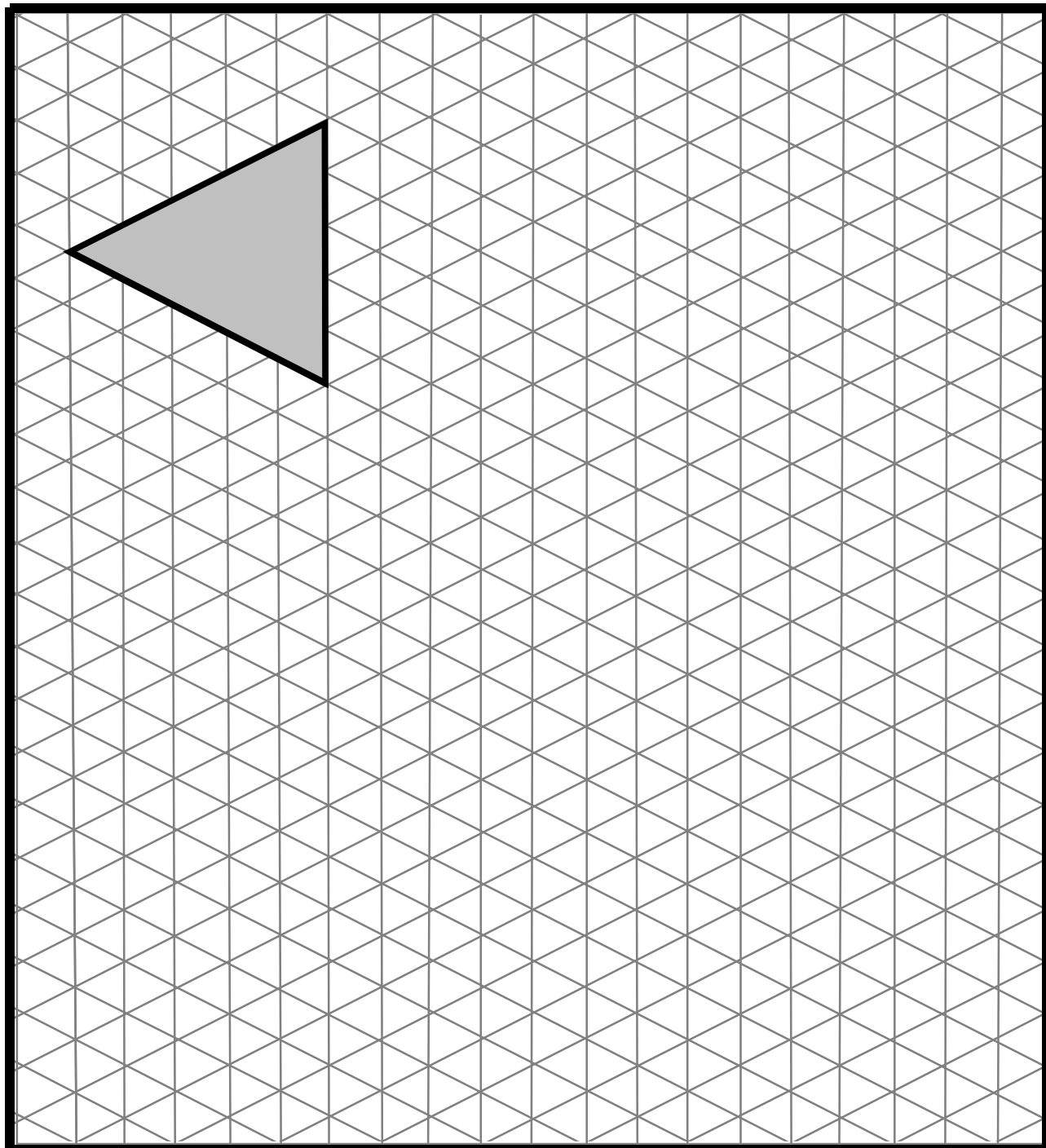
squares _____

hexagons _____

rectangles _____

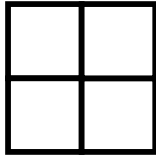
octagons _____

8. Use the triangle grid paper and make two more triangles, one congruent and one similar to the triangle shaded below. Shade in the figures you drew and label each figure.



9. Here is a top, front, and side view of a three-dimensional figure. Using linking cubes, predict how many cubes it would take to build the figure. Put your answer on the line provided below.

Top



Front

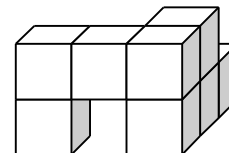
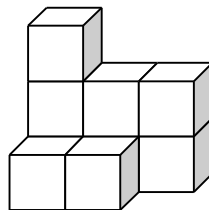
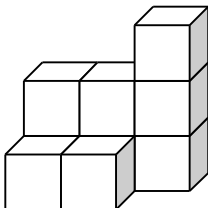
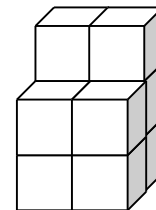
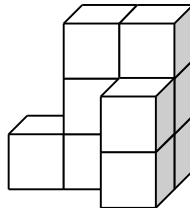
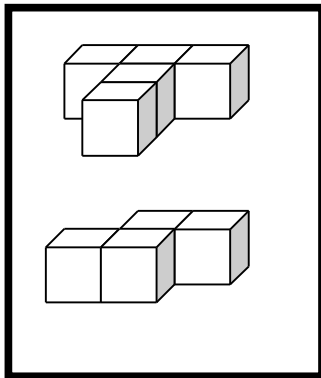


Side

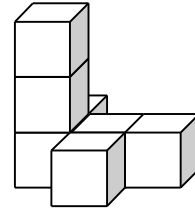
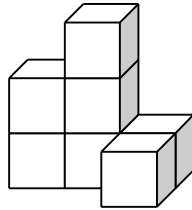
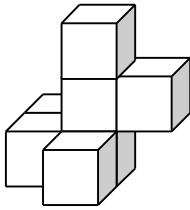
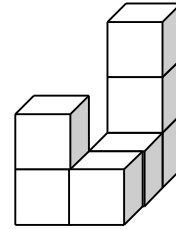
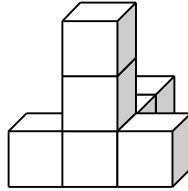
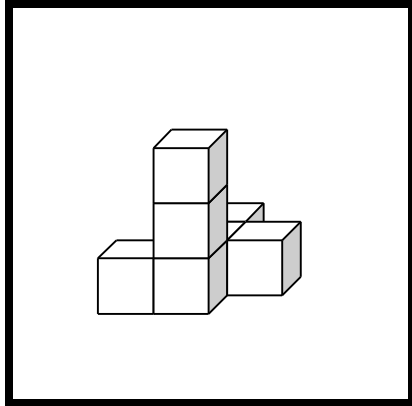


Number of cubes: _____

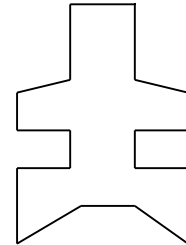
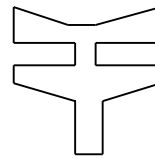
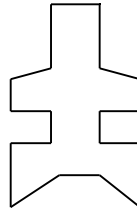
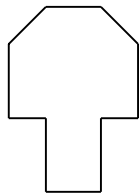
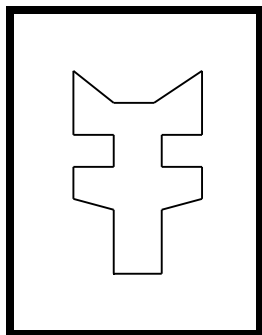
10. Here are two puzzle pieces. Circle the figures below that can be made from the two pieces shown.



11. Here is one view of a building. Circle the figure that is another view of the same building.

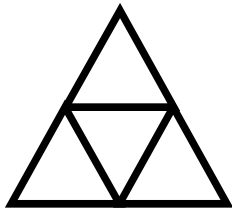


12. Look at the shape shown on the left. Circle a shape on the right that is congruent.

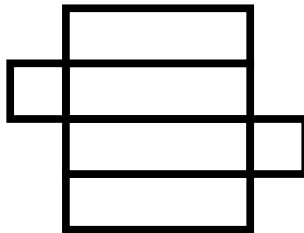


Shown below are nets or jackets that when folded on the lines form three-dimensional figures.

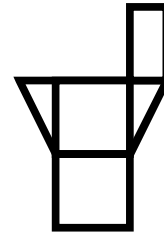
A



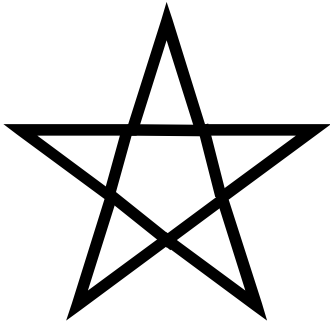
B



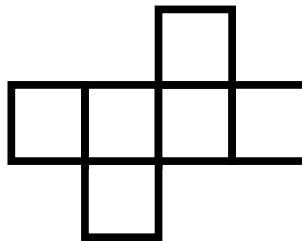
C



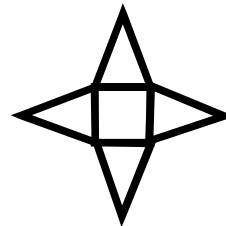
D



E



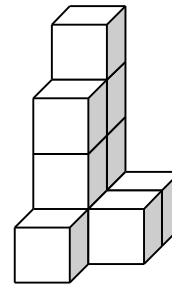
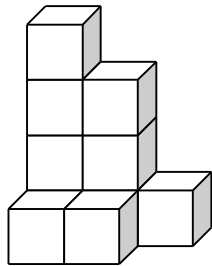
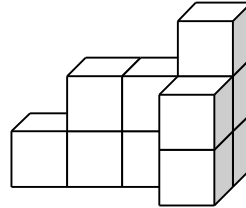
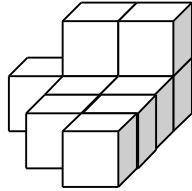
F



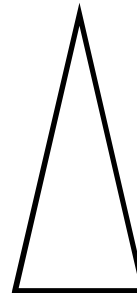
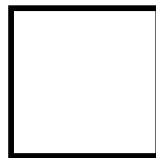
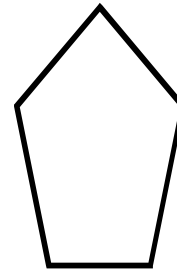
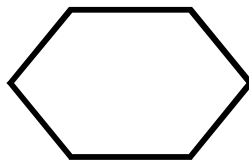
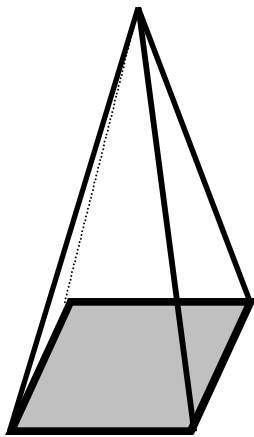
13. List the letters of all jackets pictured above that form pyramids.

14. List the letters of all jackets pictured above that form prisms.

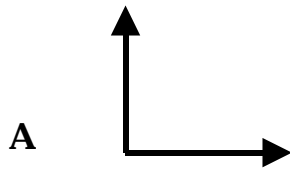
15. When shown from another perspective, a figure may appear to be different. Circle the figure below that is not the same as the others.



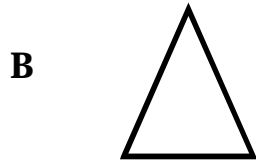
16. Circle all the types of polygons shown on the right that are needed to make the polyhedron shown on the left.



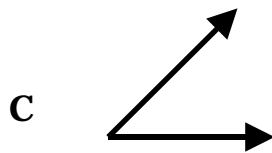
17. Record the letter of the diagrams shown on the left to the correct descriptions listed on the right.



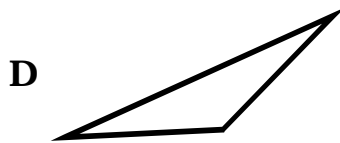
Right Angle _____



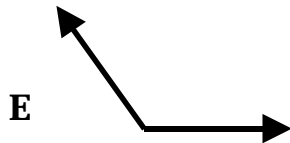
Acute Angle _____



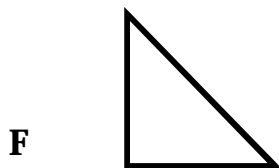
Obtuse Angle _____



Right Triangle _____

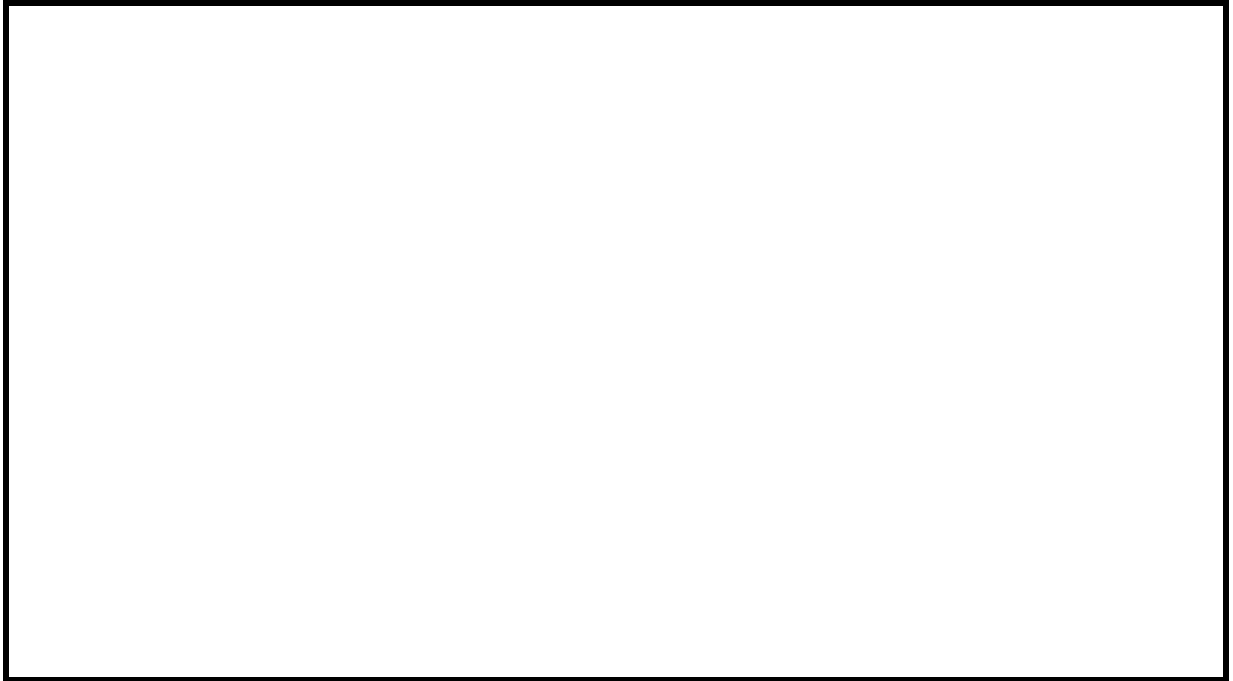


Acute Triangle _____

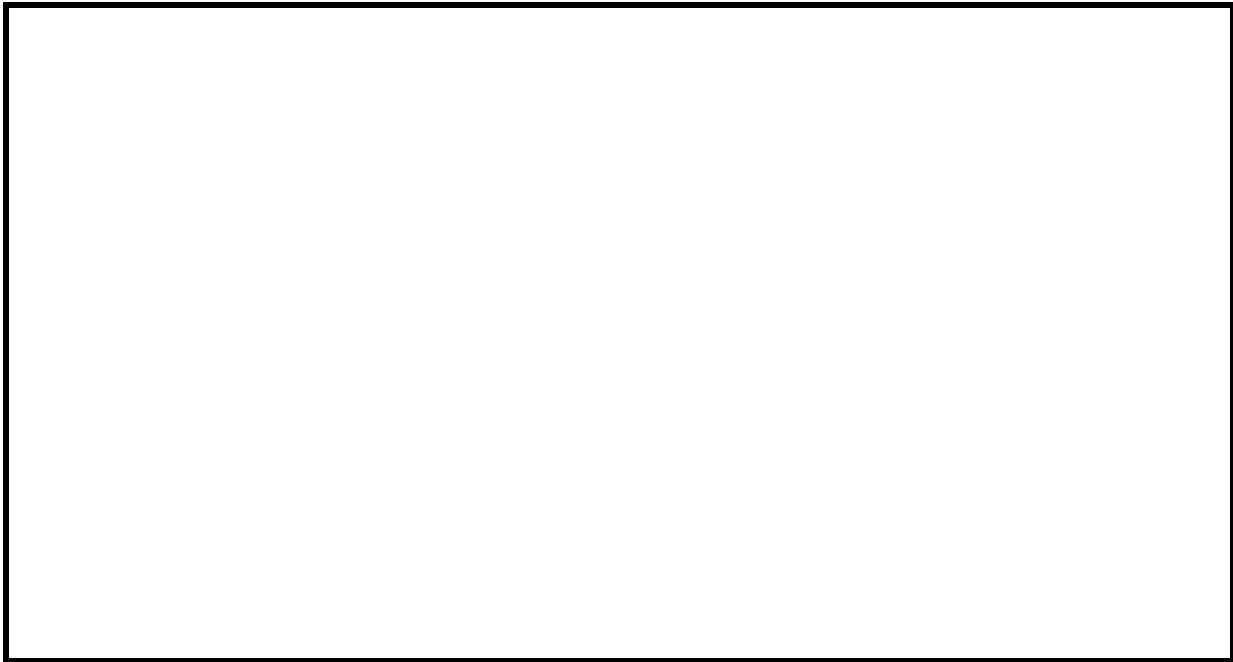


Obtuse Triangle _____

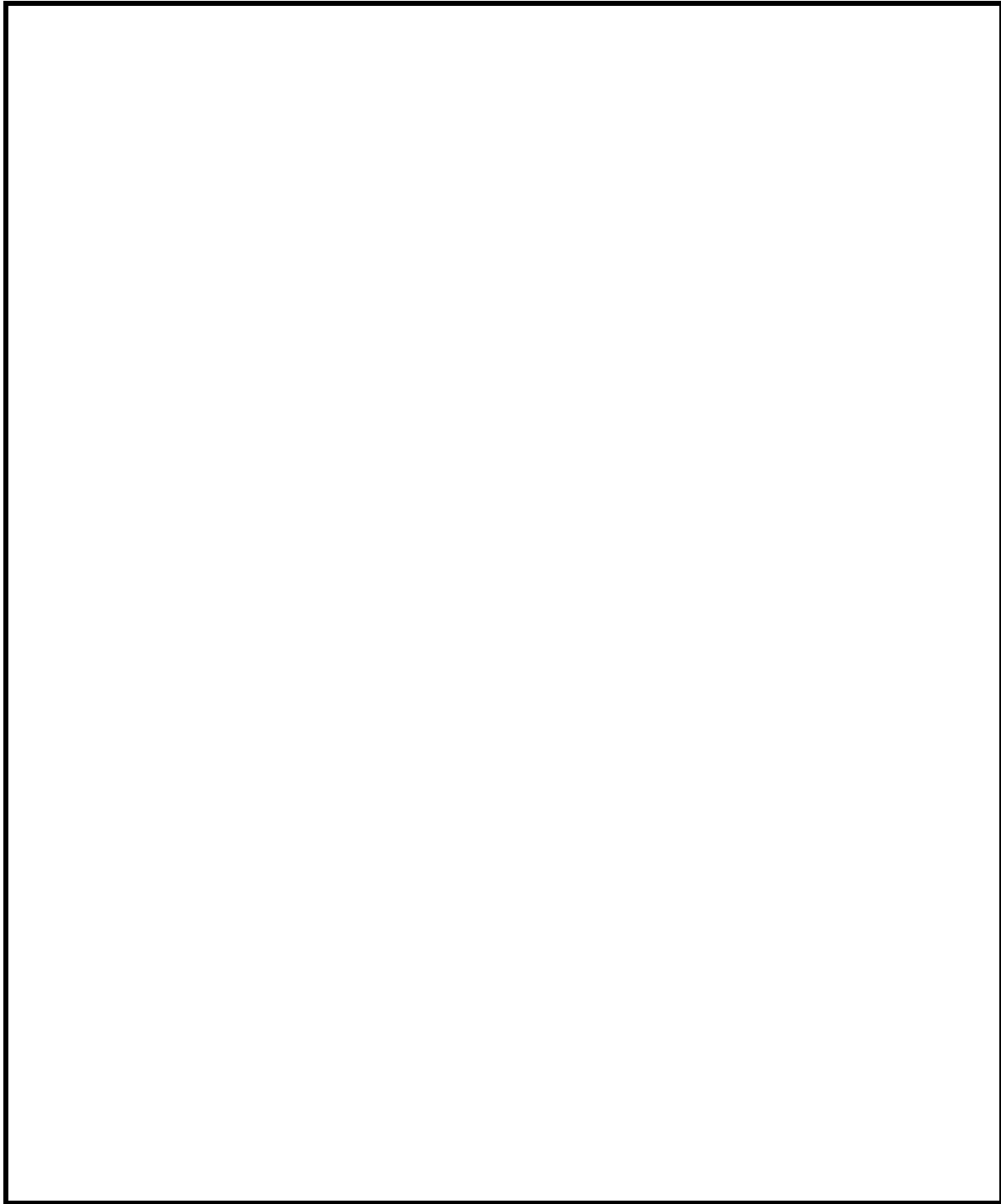
18a. Trace one Tangram piece that has at least one 90° degree angle in the space provided below.



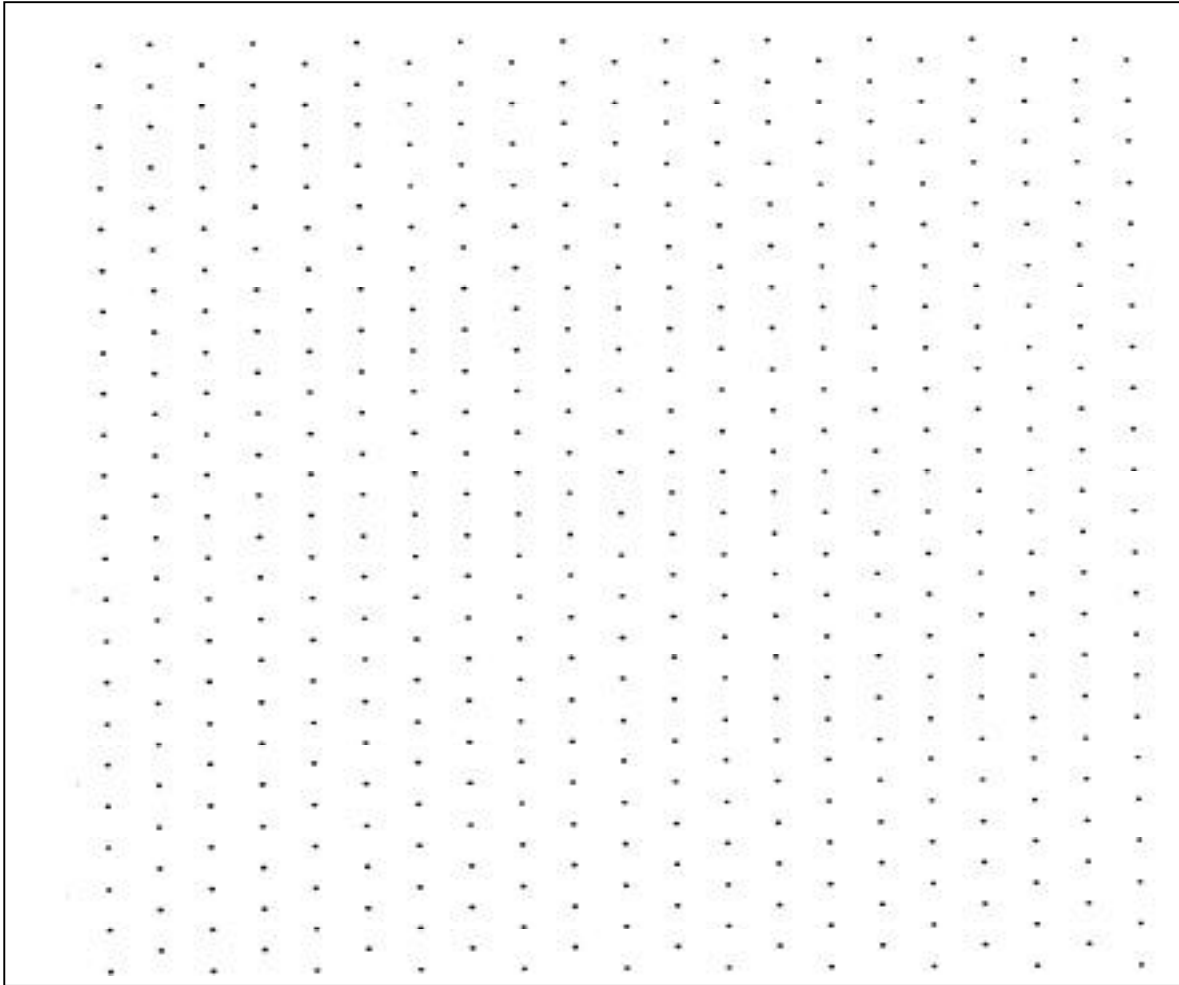
18b. Trace one Tangram piece that has no 90° degree angles in the space provided below.



19. Build a rectangle using at least 2 non-congruent pieces from the 7 piece Tangram set. Trace the rectangle, then trace the individual Tangram pieces inside the rectangle.



20a. Think about the attributes of a prism. Now, draw a prism in the space provided below.



20b. List at least four attributes of your prism.
