1.   Determine which shape is a polygon.

   a.

   b.

   c.

   d.

2.   Determine which shape is not a polygon.

   a.

   b.

   c.

   d.

3.   An _____ angle is an angle that measures less than 90 degrees and an _____ is an angle that measures more than 90 degrees.

   a.   acute, acute
   b.   acute, obtuse
   c.   obtuse, acute
   d.   obtuse, obtuse

4.   A regular polygon must have which characteristics for it to be considered a polygon?

   a.   straight lines
   b.   a closed shape
   c.   2D shape
   d.   all of the above

5.   A scalene triangle, a rectangle, and a right triangle are all examples of what kind of polygons?

      a.   regular polygons
      b.   irregular polygons
      c.   not a polygon
      d.   3D polygons

6.   TRUE or FALSE: Jessica is trying to classify different shapes into regular and irregular polygons. Jessica is convinced that a square is a regular polygon. Is Jessica correct?

_____

7.   TRUE or FALSE: An acute scalene triangle is a triangle that has all angles less than 90 degrees and all sides are different lengths.

_____

8.   TRUE or FALSE: Quadrilaterals are polygons that have three sides, three angles, and three vertices.

_____

9.   TRUE or FALSE: All polygons must have straight sides, interior angles, and vertices.

_____

10.   TRUE or FALSE: An equilateral triangle has all angles that measure 45 degrees.

_____

11. Johny wants to enclose his square garden to keep the squirrels away from his tomatoes. He measured the length of one side and quickly determined the perimeter without measuring the other sides. One side measures 30 cm. Help Johny determine the perimeter of his fence.

Classify the following polygons below in the correct category.

12.

Regular Polygon	Irregular Polygon	Not a Polygon
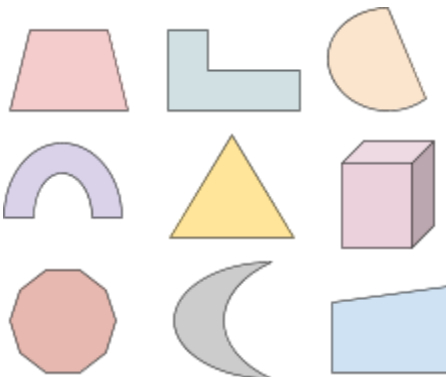
Match the following polygons with the corresponding names.
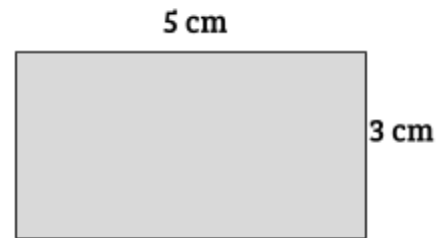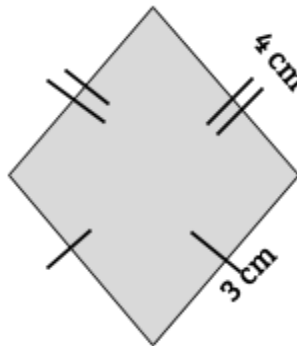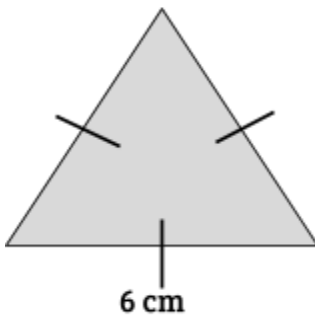
13.

Octagon

Rhombus

Triangle

Rectangle

Pentagon

14. Jessica is trying to determine if the following shapes below have the same perimeter. Can you help Jessica determine which shapes below have the same perimeter. Hint: To find the perimeter add up all the sides.

6 cm

4 cm

3 cm

5 cm

3 cm

Determine the measure of each angle in the following polygons if the polygons are regular
15. polygons.

360°

180°

_____   _____