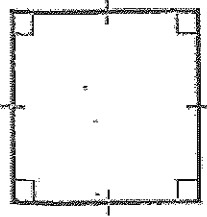


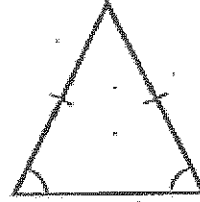
Polygons Practice: 2/25/16

Directions: Name each polygon. Then tell whether it is a regular polygon or not a regular polygon.

1.



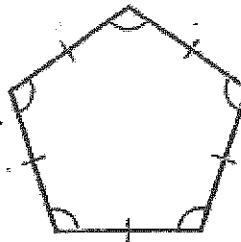
2.



3.

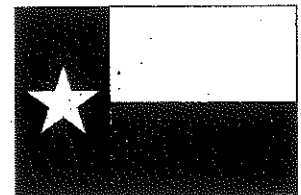


4.

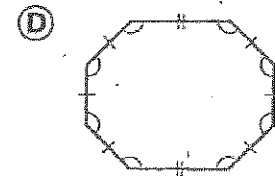
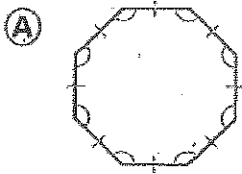


5. Karen draws a polygon with seven congruent sides and angles. Name Karen's shape. Is the shape a regular polygon? Explain.

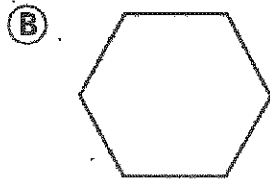
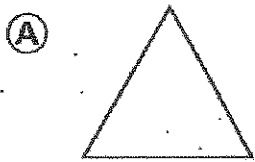
6. Name the shapes that make up the Texas state flag. Are any of the shapes regular polygons? Explain.



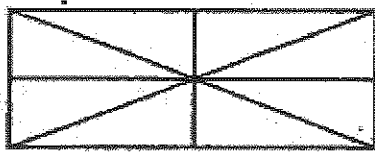
7. Which of the following is a regular octagon?



8. Bryan uses only regular polygons in his shape mobile. Which polygon could NOT be in Bradley's mobile?



9. How many regular triangles are in this figure?



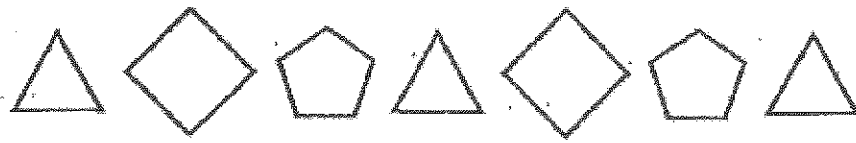
- a. 0
- b. 8
- c. 4
- d. 6

10. An artist made a pendant with the shape shown below. What is the name of the shape? Is it regular?



- a. Hexagon; regular
- b. Hexagon; not regular
- c. Octagon; regular
- d. Octagon; not regular

11. Which are the next two polygons in the pattern?

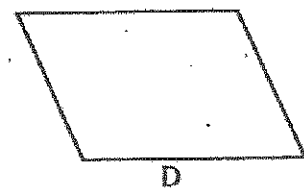
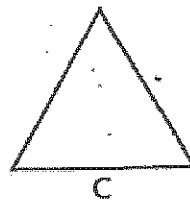
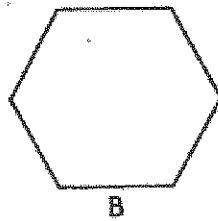
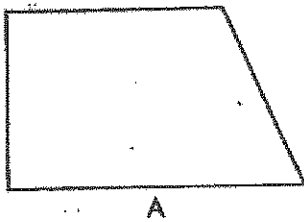


- a. Triangle; square
- b. Quadrilateral; triangle
- c. Quadrilateral; pentagon
- d. Pentagon; triangle

12. How can you classify the sides and angles of a square?

- a. 2 pairs of congruent sides; 2 pairs of congruent angles
- b. 4 congruent angles; 4 congruent sides
- c. 0 congruent angles; 4 congruent sides
- d. 2 pairs of congruent sides; 1 pair of congruent angles

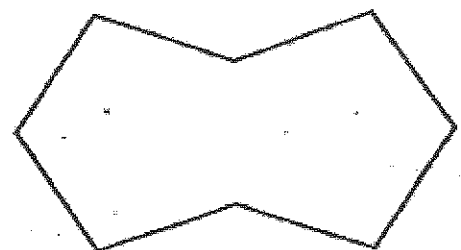
13. Mary would like to create a mosaic using pieces that have only four angles. Which shapes could Mary use?



- a. A and B
- b. B and C
- c. A and D
- d. B and D

14. Lisa found a small green piece of glass with this shape. What is the name of the shape? Is it regular?

- a. Hexagon; regular
- b. Octagon; regular
- c. Hexagon; not regular
- d. Octagon; not regular



15. Landon began a mosaic using congruent regular triangles. He first placed a triangle as a center piece. He then placed three triangles so that one side of each triangle lined up with one side of the original triangle. What shape was formed by the first four pieces?
- a. Regular hexagon
 - b. Quadrilateral
 - c. Regular triangle
 - d. Nonagon

16. Which of the following is a regular hexagon?

