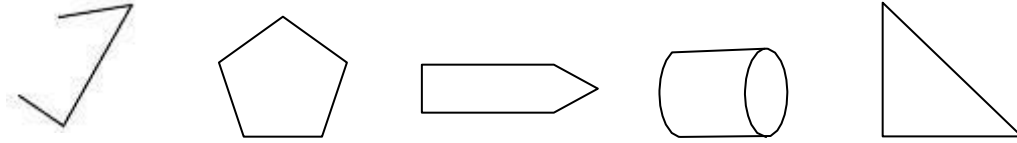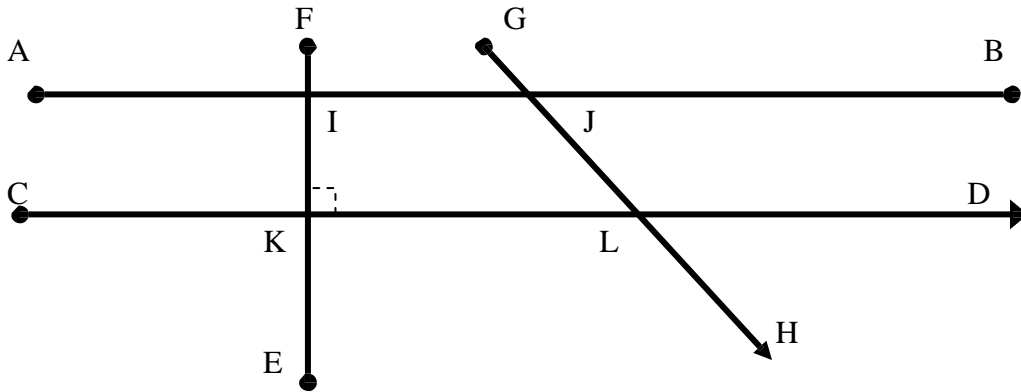**Geometry Unit Study Guide**

1. Circle the polygons and name them.

Use the diagram below to answer questions 2-7.

2. Name a line segment. _____

3. Name a ray. _____

4. Name an obtuse angle. _____

5. Name two segments that are intersecting. _____

6. Name two items that are parallel. _____
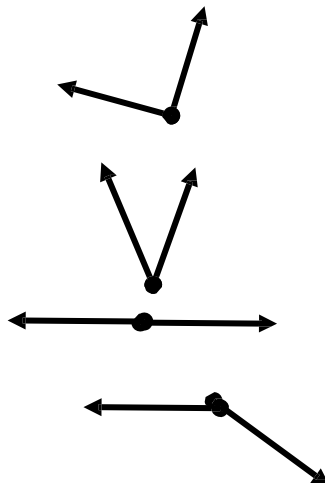
7. Name two items that are perpendicular. _____

Draw a line from the name of the angle to the correct angle.
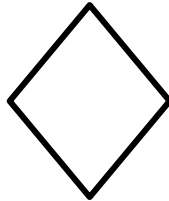
8. straight

9. obtuse

10. right

11. acute

12. A square and a rectangle are different because_____.
    a. Both have right angles
    b. Both have two sets of parallel lines
    c. One has 2 sets of congruent sides and one has 4 equal sides
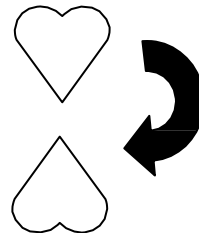   d. One has 2 parallel sides and one has 1 set of parallel sides

13. What is the shape? Circle all answers.
    a. Rhombus
    b. Parallelogram
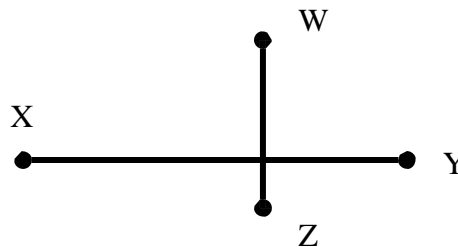   c. Trapezoid
    d. Square

14. How is the shape rotated?
    a. 360 degrees or a full rotation
    b. 90 degrees or a quarter of a rotation
    c. 270 degrees or three quarters of a rotation
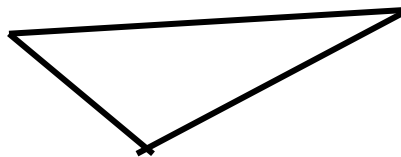   d. 180 degrees or half a rotation

15. The lines below show a set of_____segments.
    a. Intersecting
    b. Parallel
    c. Perpendicular
    d. Straight

    W

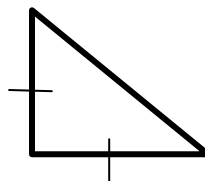   X

    Y

    Z

16. Name the triangle by its angle and its sides.
    a. Scalene and obtuse
    b. Right and isosceles
    c. Acute and equilateral
    d. Acute and isosceles

17. Name the triangle by its angle and sides.
    a. Scalene and obtuse
    b. Right and isosceles
    c. Acute and equilateral
    d. Acute and isosceles

Identify the shape and draw it.

18. I am a polygon.

  All of my sides are the same length.

  I have three 60 degree angles.

  What am I?

19. I am a quadrilateral.

  I have 2 sets of parallel sides.

  All of my angles are right angles.

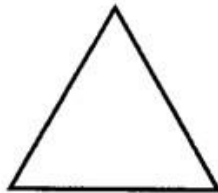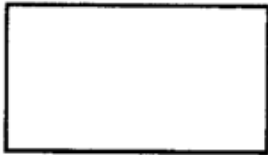 I am not a square.

  What am I?

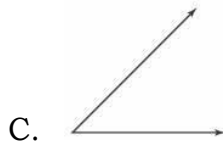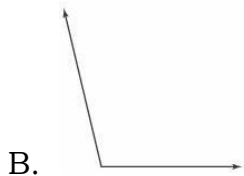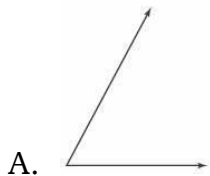20. I am a polygon.

  I am a quadrilateral.

   All of my sides are the same length.
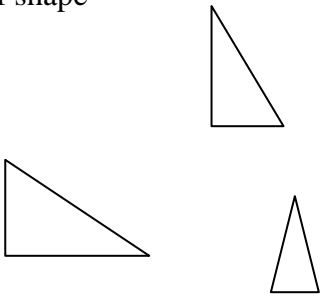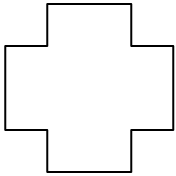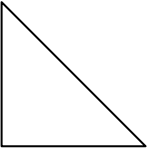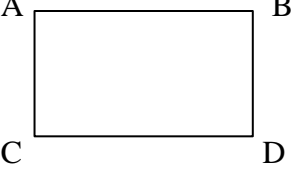
  None of my angles are right angles.

  What am I?

21. Draw all the lines of symmetry in these figures.

22. Which of the following measures closest to 100° ? (Draw one)

A.   B.   C.   D.

23. Which describes these figures? A. all the same kind of shape B. all perpendicular C. all symmetrical D. all parallel	24. How many line segments are in the figure? A. 12 B. 4 C. 11 D. 8 25. Draw in all the lines of symmetry. Does this figure have rotational symmetry? _____
26. What figure is shown below?	27. What type of triangle is this?
28. Draw and label the three types of angles based on angle.	29. What are two parallel sides of rectangle ABCD? A B C D
30. Draw and label the three types of triangles based on sides.	31. Draw and label an example of each. Line segment, point, ray
32. I have 3 sides and 3 angles. All 3 of my angles are acute. What figures could I be?	33. Elena cut a figure from paper. It has 4 sides, 2 of which are parallel. There are no right angles. What is the figure?