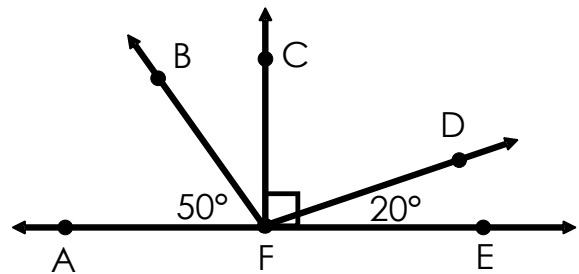


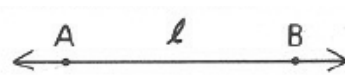
**Use the figure at right for 1-4:**

1. Name a right angle \_\_\_\_\_
2. Find  $m\angle BFD$  \_\_\_\_\_
3. Name 2  $\perp$  objects \_\_\_\_\_
4. Name 2 opposite rays \_\_\_\_\_

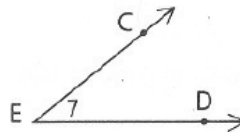


**Answer the questions below, using proper notation. Draw a box around your answers.**

5. Give three possible names for the line at right.



6. Give four possible names for the angle at right.



7. Can the ray shown be called  $\overrightarrow{XY}$ ? Why or why not?



8. Write a segment with endpoints L and C. \_\_\_\_\_ Now write a statement that says the length of the segment is 5 inches.

9. Write a mathematical statement that says angle J is 43 degrees.

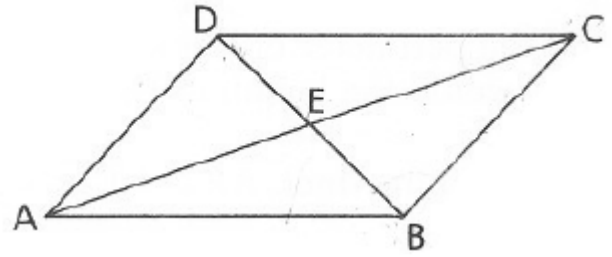
10. Angles X and Y both have a measure of 25 degrees. Write a congruence statement for the two angles.

11. Which of the statements below does not use proper notation? Explain your answer.

- A.  $m\angle B = 57^\circ$       B.  $\angle X = \angle Y$       C.  $AB = CD$       D.  $\overline{PQ} \cong \overline{ST}$

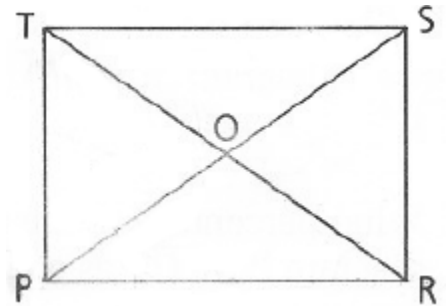
Use the figure at right for 12a-12g. Use proper notation!

12. a.  $\overline{AB} \cap \overline{BC}$  \_\_\_\_\_
- b.  $\overline{EC} \cup \overline{EA}$  \_\_\_\_\_
- c.  $\overline{AC} \cap \overline{DB}$  \_\_\_\_\_
- d.  $\overline{DC} \cap \overline{AB}$  \_\_\_\_\_
- e.  $\overline{AC} \cap \overline{EC}$  \_\_\_\_\_
- f.  $\overline{BA} \cup \overline{BC}$  \_\_\_\_\_
- g.  $\overline{EC} \cup \overline{CB} \cup \overline{BE}$  \_\_\_\_\_



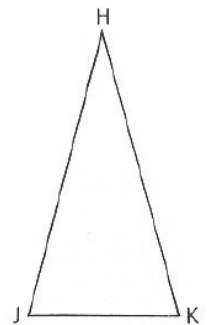
Use the figure at right for 13a-13e. Use proper notation!

13. a. Name  $\angle OPR$  in all other possible ways.
- b. What is the vertex of  $\angle TOS$ ?
- c. How many angles have vertex  $R$ ?
- d. Name  $\angle TSP$  in all other possible ways.
- e. How many triangles are there in the figure?



Use the figure at right for 14-15. Draw a box around your final answers.

14. In  $\triangle HJK$ ,  $\overline{HJ}$  is twice as long as  $\overline{JK}$  and exactly as long as  $\overline{HK}$ . If the length of  $\overline{HJ}$  is 15, find the perimeter of  $\triangle HJK$ .
15. If the length of  $\overline{HJ}$  were  $4x$ , the length of  $\overline{HK}$  were  $3x$ , the length of  $\overline{JK}$  were  $2x$ , and the perimeter of  $\triangle HJK$  were 63 cm, find the length of  $\overline{HJ}$ .



16. Draw a diagram in which the intersection of  $\angle AEF$  and  $\angle DPC$  is  $\overline{ED}$ .