

Name Key

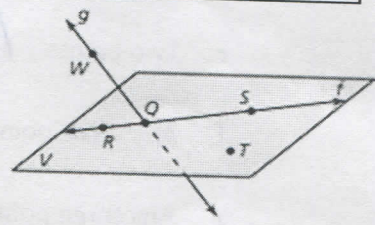
Date \_\_\_\_\_ Pd \_\_\_\_\_

CYU: HGEO 1.1 Points, Lines, & Planes

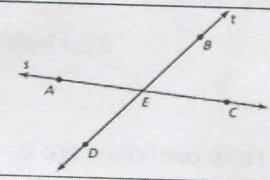
Use when you get it right all by yourself  
**S** Use when you did it all by yourself, but made a silly mistake  
**H** Use when you could do it alone with a little help from teacher or peer  
**G** Use when you completed the problem in a group  
**X** Use when a question was attempted but wrong (get help)  
**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Name points, lines, & planes.	1	8	9, 14
Name segments & rays.	4	5	14
Collinear & Coplanar	2	3, 9, 12	13
Sketch intersections of lines & planes.	6, 8, 10		7, 11

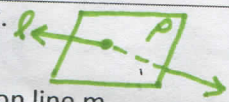
1. Give two other names for  $\overleftrightarrow{WQ}$ .  
*line g and  $\overleftrightarrow{QW}$*
2. Name three points that are collinear. Then name a fourth point that is not collinear with these three points.  
*R, Q, S      T*
3. Name a point that is not coplanar with R, S, and T. *W*



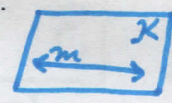
4. Name two pairs of opposite rays.  
 *$\overrightarrow{ED}, \overrightarrow{EB}$  &  $\overrightarrow{EA}, \overrightarrow{EC}$*
5. Name one pair of rays that are not opposite rays.  
 *$\overrightarrow{EB}, \overrightarrow{EC}$*



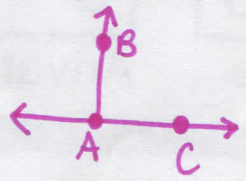
6. Sketch a plane P and line l intersecting at one point.



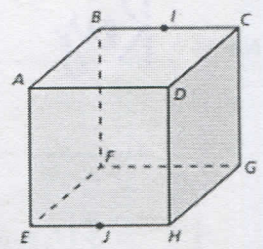
7. Sketch plane K and line m intersecting at all points on line m.



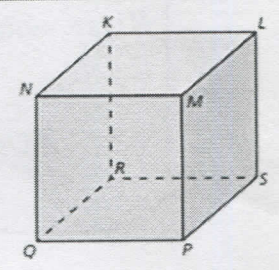
8. Sketch  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{AC}$ .



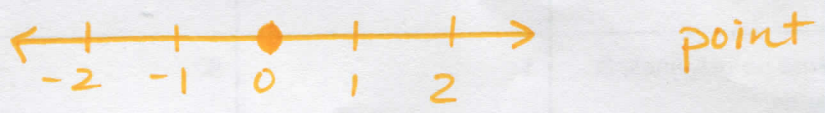
9. Name a point that is not collinear with points B and I. **D, J**  
(not C)
10. Name the intersection of plane AEH and plane FBE. **AE**
11. Name the intersection of plane BGF and plane HDG. **CG**



12. Use the diagram to name all the points that are not coplanar with the given points: P, Q, and N. **K, L, S, R**
13. Use the diagram to name all the points that are not coplanar with the given points: Q, K, and L. **N, M, R, S**



14. Graph the inequality on a number line. Tell whether the graph is a segment, a ray or rays, a point or a line:  $|x| \leq 0$ .



15. Complete the statements with Always, Sometimes, or Never. Explain your reasoning.
- a. A line N has endpoints. *A line extends forever.*
  - b. A line and a point S intersect. *may be on the line*
  - c. A plane and a point S intersect. *may be on the plane*
  - d. Two planes S intersect in a line. *the planes could be parallel (//)*
  - e. Two points A determine a line. *there is exactly one line through any two points.*
  - f. Any three points S determine a plane. *the points may be collinear*
  - g. Any three points not on the same line A determine a plane. *there is exactly one plane through any three points not on the same line.*

**CYU Reflection:** How far can you go: basic, intermediate, or advanced?

**Rate your mastery level!**

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

