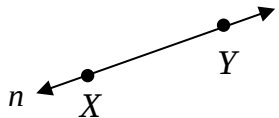
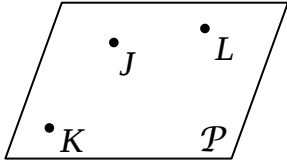
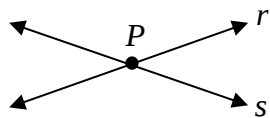
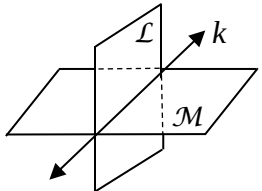


UNIT 1 DICTIONARY: GEOMETRY BASICS

Term	Definition	Example or Visual
POINT		
LINE		
LINE SEGMENT		
RAY		
PLANE		
COLLINEAR		
COPLANAR		

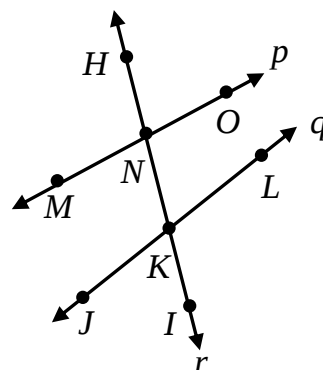
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes
POINT 	- A point is a _____. - It has no _____ or _____. - Always use a <u>CAPITAL LETTER</u> to name a point. Example: _____
LINE 	- A line is made up of _____. - Any _____ points form a line. - A line has no _____ or _____. - Name a line by any <u>two</u> points on the line, or a lowercase script letter. Example: _____ COLLINEAR POINTS: Points that lie on the same line. NON-COLLINEAR POINTS: Points that do NOT lie on the same line. (Must be at least three points!)
PLANE 	- A plane is a _____ made up of points. - Any _____ points make up a plane. - A plane extends indefinitely in all directions. - Name a plane by any <u>three</u> non-collinear points on the plane, or an uppercase script letter. Example: _____ COPLANAR POINTS: Points that line on the same plane. NON-COPLANAR POINTS: Points that do NOT lie on the same plane. (Must be at least four points!)
Intersecting LINES & PLANES	 Two lines intersect at a _____!  Two planes intersect at a _____!

Naming points, Lines, and planes: Practice!

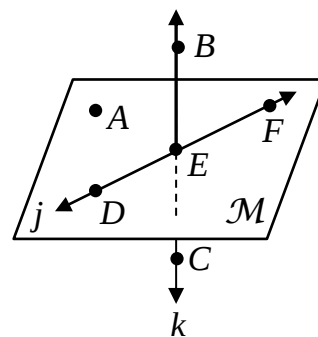
1. Use the diagram to the right to name the following.

- Four collinear points. _____
- A line that contains point M . _____
- A line that contains points H and K . _____
- Another name for line q . _____
- The intersection of lines p and r . _____



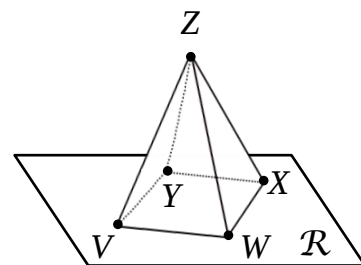
2. Use the diagram to the right to name the following.

- A line containing point F . _____
- Another name for line k . _____
- A plane containing point A . _____
- An example of three non-collinear points. _____
- The intersection of plane M and line k . _____



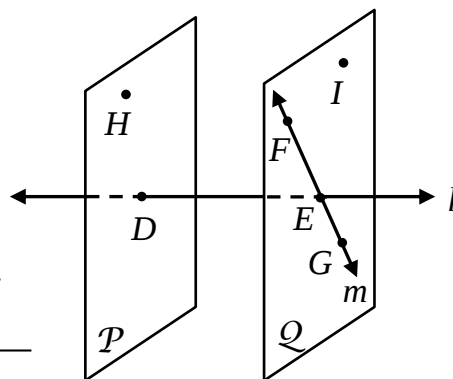
3. Use the diagram to the right to name the following.

- Three coplanar points. _____
- A plane containing point X . _____
- The intersection of plane R and plane ZVY . _____
- How many planes appear in the figure? _____
- How many planes contain point W ? _____

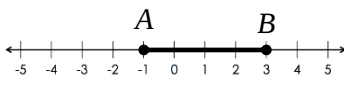
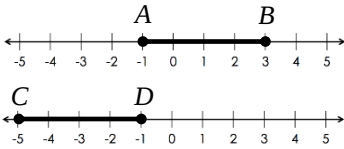
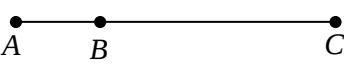
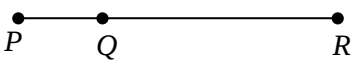
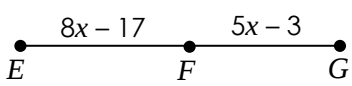
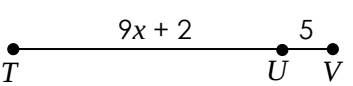
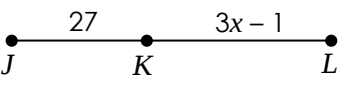
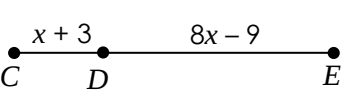


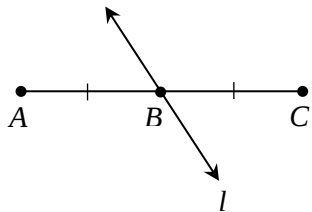
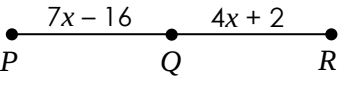
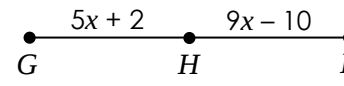
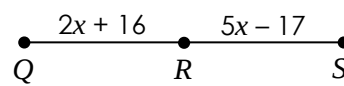
4. Use the diagram to the right to name the following.

- The intersection of lines l and m . _____
- Another name for plane Q . _____
- Are points D and E collinear or coplanar? _____
- How many times do planes P and Q intersect? _____



Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
MEASURING SEGMENTS	The distance between two points A and B be written as _____ or _____.	 $AB = \underline{\hspace{2cm}}$
CONGRUENT SEGMENTS	If _____, then the segments are congruent. This is written as _____.	
SEGMENT ADDITION <i>Postulate</i>	If A, B, and C, are collinear points and B is between A and C, then _____	
<i>Examples</i>	Use the diagram below for questions 1 and 2. 	1. If $PQ = 9$ and $QR = 28$, find PR.
		2. If $QR = 17$ and $PR = 21$, find PQ.
	3. If $EG = 71$, find the value of x. 	4. If $TV = 14x - 8$, find TU. 
	5. If $JL = 5x + 2$, find JL. 	6. If $CE = 7x + 4$, find the value of x. 

	7. If $SK = 13x - 5$, $KY = 2x + 9$, and $SY = 36 - x$, find each value.  $x = \underline{\hspace{2cm}}$ $SK = \underline{\hspace{2cm}}$ $KY = \underline{\hspace{2cm}}$ $SY = \underline{\hspace{2cm}}$
MIDPOINT <i>of a Segment</i> 	- The _____ of a segment is a point that divides the segment into _____. - A line, ray, or segment that intersects a segment at its midpoint is said to _____ the segment and is called the _____. - In the diagram to the left, _____ is the midpoint of _____ and line _____ is a _____ of _____.
<i>Examples</i>	8. If Q is the midpoint of $\overline{PR}$, find the value of x. 
	9. If H is the midpoint of $\overline{GI}$, find GH. 
	10. If R is the midpoint of $\overline{QS}$, find QS. 
	11. If G is the midpoint of $\overline{FH}$ and $FH = 6y - 2$, find y. 