
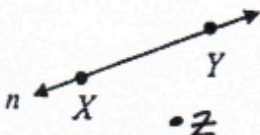
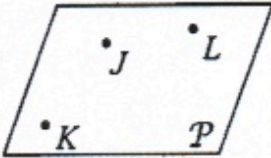
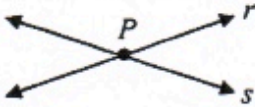
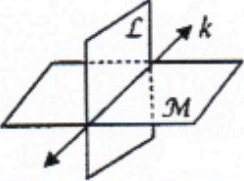


Name: _____

Date: _____

Topic: U121

Class: _____

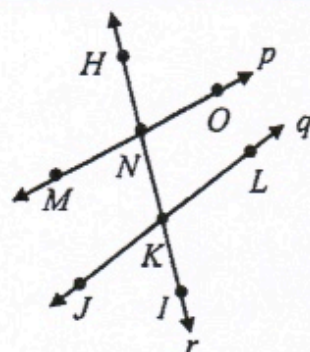
Main Ideas/Questions	Notes
<p>POINT</p> 	<ul style="list-style-type: none"> A point is a <u>location</u>. It has no <u>size</u> or <u>shape</u>. Always use a <u>CAPITAL LETTER</u> to name a point. <p>Example: <u>point A</u></p>
<p>LINE</p>  <p><i>X, Y, Z are non-collinear</i></p>	<ul style="list-style-type: none"> A line is made up of <u>points</u>. Any <u>2</u> points form a line. A line has no <u>thickness</u> or <u>width</u>. Name a line by any <u>two</u> points on the line, or a lowercase script letter. <p>Example: <u>\overleftrightarrow{XY}, line <i>n</i>, line <i>xy</i></u></p> <ul style="list-style-type: none"> 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!)
<p>PLANE</p> 	<ul style="list-style-type: none"> A plane is a <u>flat surface</u> made up of points. Any <u>3</u> 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. <p>Example: <u>plane P, plane KJL</u></p> <ul style="list-style-type: none"> 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!)
<p>Intersecting LINES & PLANES</p>	 <p>Two lines intersect at a <u>point</u>!</p>  <p>Two planes intersect at a <u>line</u>!</p>

* Answers may vary *

Naming Points, Lines, and Planes: Practice!

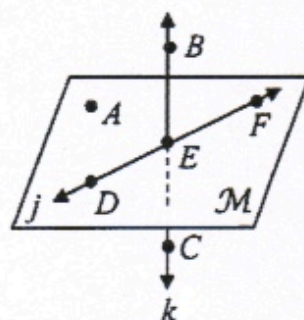
1. Use the diagram to the right to name the following.

- a) Four collinear points. H, N, K, I
- b) A line that contains point M . line p
- c) A line that contains points H and K . line r
- d) Another name for line q . $\overleftrightarrow{JL}, \overleftrightarrow{JK}, \overleftrightarrow{KL}$
- e) The intersection of lines p and r . N



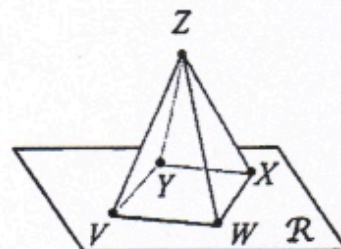
2. Use the diagram to the right to name the following.

- a) A line containing point F . line j
- b) Another name for line k . $\overleftrightarrow{BE}, \overleftrightarrow{BC}, \overleftrightarrow{EC}$
- c) A plane containing point A . plane M
- d) An example of three non-collinear points. A, B, D
- e) The intersection of plane M and line k . E



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

- a) Three coplanar points. V, Y, X
- b) A plane containing point X . plane R
- c) The intersection of plane R and plane ZVY . \overleftrightarrow{VY}
- d) How many planes appear in the figure? 5
- e) How many planes contain point W ? 3



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

- a) The intersection of lines l and m . E
- b) Another name for plane Q . plane IFa
- c) Are points D and E collinear or coplanar? collinear
- d) How many times do planes P and Q intersect? 0

