Name: _____ Period: _____ Date: _____

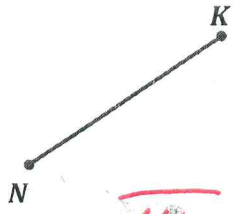
Points Lines and Planes Assignment

Use the figure to name each of the following.

1.

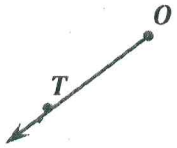
$\overleftrightarrow{AB}$

2.



$\overline{NK}$

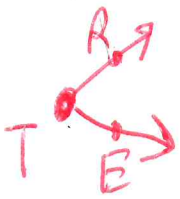
3.



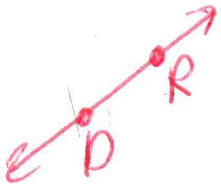
$\overrightarrow{OT}$

Draw and label figure for each relationship.

4. Ray $\overrightarrow{TR}$ and ray $\overrightarrow{TE}$

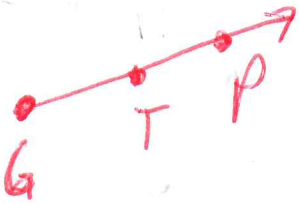


5. Line $\overleftrightarrow{DR}$

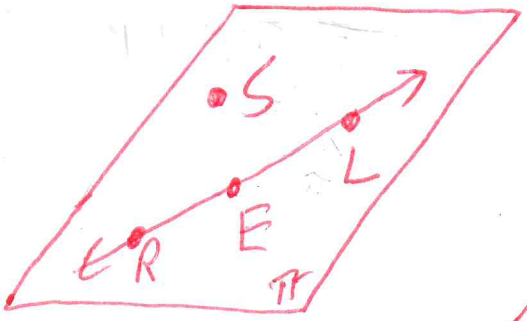


6. Line segment $\overline{SU}$

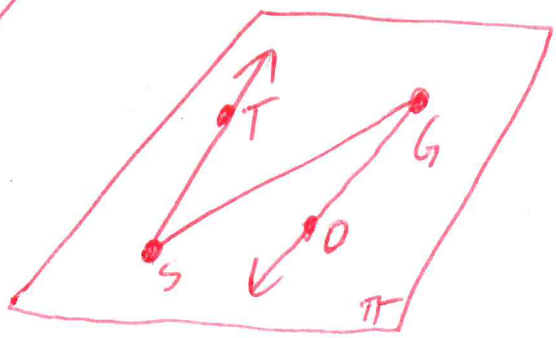
7. Draw two points, G and P. Then sketch $\overrightarrow{GP}$. Add a point T on the ray so that T is between G and P.



8. Line $\overleftrightarrow{RL}$ lies in plane π and contains point E, but does not contain point S

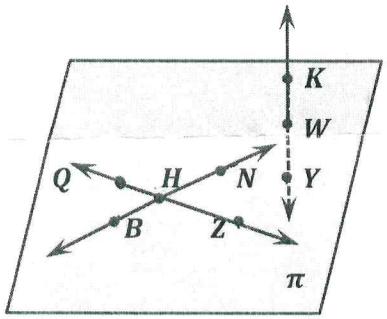


9. Line segment $\overline{SG}$ lies in plane π, and his end points are initial points of the ray $\overrightarrow{ST}$ and the ray $\overrightarrow{GO}$



Refer to each figure.

10.



Name three line segments.

$\overline{HN}$ $\overline{HB}$ $\overline{NB}$ .....

Name the intersection of plane π and line $\overleftrightarrow{KY}$.

Point W

Name the two opposite rays at point H.

$\overrightarrow{HN}$ and $\overrightarrow{HB}$ or $\overrightarrow{HQ}$ and $\overrightarrow{HZ}$

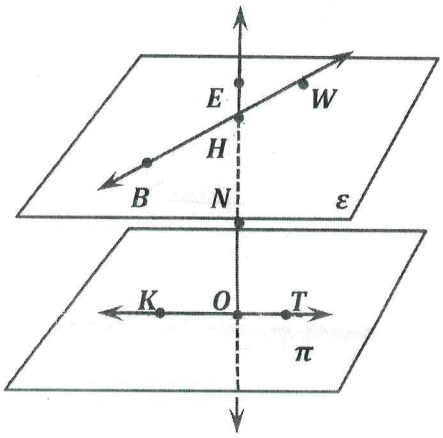
Name the intersection of line $\overleftrightarrow{BN}$ and line $\overleftrightarrow{QZ}$

Point H

Name: _____ Period: _____ Date: _____

Points Lines and Planes Assignment

11.



Name three collinear point in plane ε.

B, H, W

Name the intersection of plane ε and line $\overleftrightarrow{EN}$.

Point H

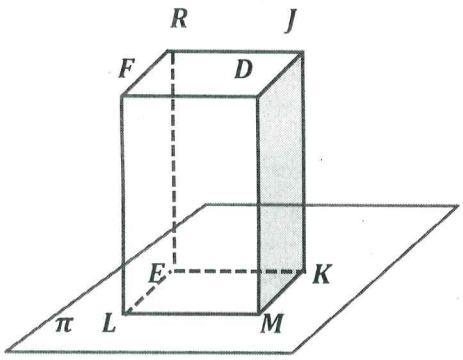
Name the intersection of plane π and line $\overleftrightarrow{EN}$.

Point O

Name the intersection of line $\overleftrightarrow{BW}$ and line $\overleftrightarrow{EN}$

Point H

12.



Name three planes.

Plane π, Plane FLM, Plane DMK ... etc.

Name a point that is coplanar with M and F

D or L

Name the intersection of plane π and plane FDM.

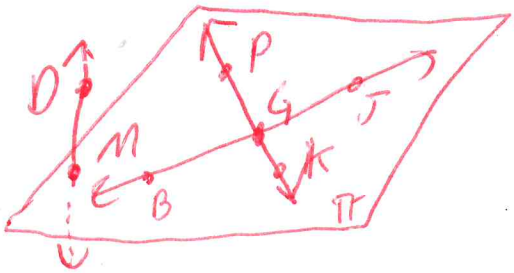
$\overleftrightarrow{LM}$ (where does the front of the cube intersect the base)

Name the intersection of plane MKJ and plane FDJ.

$\overleftrightarrow{DJ}$ (where does the ~~flap~~ shaded right side intersect the top)

Draw and label figure for each relationship.

13. Lines $\overleftrightarrow{BJ}$ and $\overleftrightarrow{PK}$ intersect in point G in plane π. The intersection of plane π and line $\overleftrightarrow{DM}$ is point M.



14. The intersection of plane π and plane τ is line $\overleftrightarrow{DR}$.