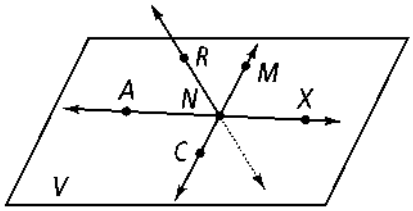
Name _____ Period _____

Geometry: 1.2b Assignment

Directions: Use the figure below for Exercises 1–8. Note that $\overleftrightarrow{RN}$ pierces the plane at *N*. It is not coplanar with *V*.



1. Name two segments shown in the figure.

2. What is the intersection of $\overleftrightarrow{CM}$ and $\overleftrightarrow{RN}$*?*

3. Name three collinear points.

4. What are two other ways to name plane *V?*

5. Are points *R, N, M,* and *X* coplanar?

6. Name two rays shown in the figure.

7. Name the pair of opposite rays with endpoint *N.*

8. How many lines are shown in the drawing?

Name _____ Period _____

Directions: For Exercises 9–14, determine whether each statement is *always, sometimes,* or *never* true.

8. $\overrightarrow{GH}$ and $\overrightarrow{HG}$ are the same ray.

9. $\overrightarrow{JI}$ and $\overrightarrow{JL}$ are opposite rays.

10. A plane contains only three points.

11. Three noncollinear points are contained in only one plane.

12. If $\overleftrightarrow{EG}$ lies in plane *X*, point *G* lies in plane *X*.

13. If three points are coplanar, they are collinear.

14. Reasoning Is it possible for one ray to be shorter in length than another? Explain.

16. Open-Ended Draw a figure of two planes that intersect in $\overleftrightarrow{ST}$.