**Worksheet:  Undefined Terms and Other Terminology**
**Geometry**

**Illustrate the following vocabulary.**

**1**. Collinear Points                **2**. Coplanar Points                **3**. Ray RT

**4**. Noncoplanar Points          **5**. Noncollinear Points          **6**. Line RT

**7**. Segment RT                    **8**.  Plane DFC                    **9**. Point M

**Use to diagram at the right for Questions 10-17.**

**10**. Give two other names for $\overleftrightarrow{AB}$.

**11**. Name three points that are collinear.

**12**. Give another name for plane F.

**13**. Name a point that is noncoplanar with A, B, and C.

**14**. Give another name for $\overline{CD}$.

**15.** Name a pair of opposite rays.

**16**. Name the intersection of line h and plane F.

**17.**  What is the intersection of $\overleftrightarrow{AB}$ and $\overleftrightarrow{DC}$?
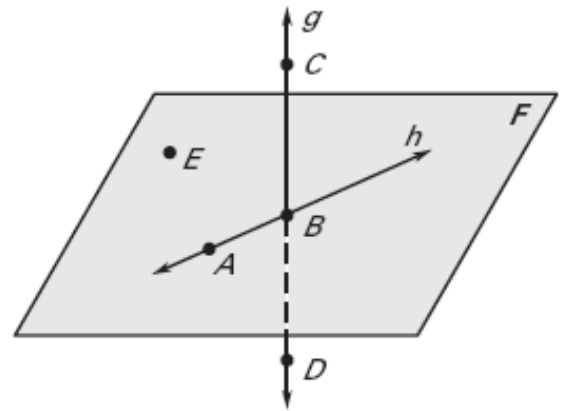
**Use the diagram at the right for Questions 18-24.**

**18.** Are points J, K, and M collinear?

**19.** Are points J, K, and M coplanar?

**20.** Are points Q, J, and P collinear?

**21.** Are points Q, J, M, and L coplanar?
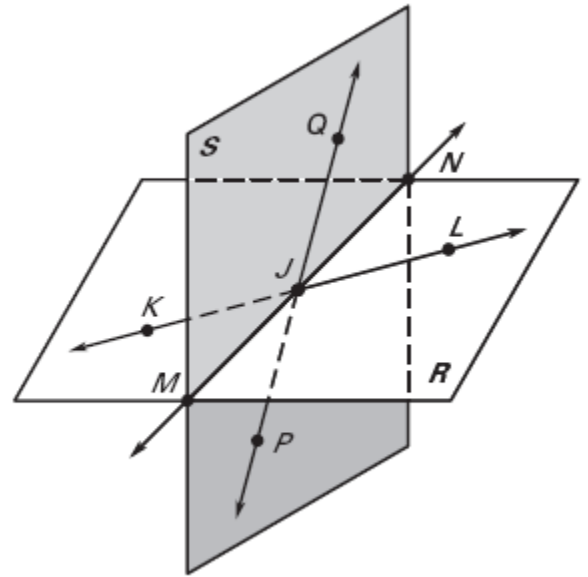
**22.** Name the intersection of $\overleftrightarrow{KL}$ and $\overleftrightarrow{PQ}$.

**23.** Name the intersection of $\overleftrightarrow{PQ}$ and plane KMN.

**24.** Name the intersection of plane R and plane S.

**Use the diagram at the right for Questions 25-32.**

**25.** Name a point collinear with points E and H.

**26.** Name a point that is collinear with points B and L.

**27.** Name a point that is not collinear with points E and H.

**28.** Name a point that is not collinear with points B and L.

**29.** Name a point that is coplanar with points D, A, and B.

**30.** Name a point that is coplanar with points C, G, and F.

**31.** Name the intersection of plane AEH and plane FBE.

**32.** Name the intersection of plane BGF and plane HDG.
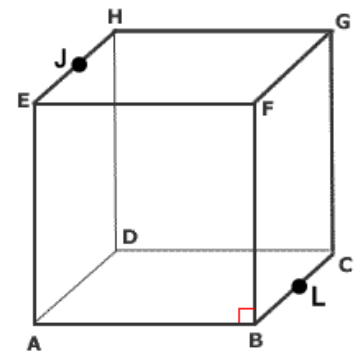
**Match the symbol with its appropriate meaning.**

**33.** _____ ≤

**34.** _____ $\overrightarrow{GH}$

**35.** _____ ≠

**36.** _____ <

**37.** _____ ≅

**38.** _____ •

**39.** _____ //

**40.** _____ =

**41.** _____ >

**42.** _____ °

**43.** _____ $\overleftrightarrow{GH}$

**44.** _____ $\overline{GH}$

**45.** _____ ~

**46.** _____ ≥

**47.** _____ ⊥

**48.** _____ ∠

**A**. Line
**B**. Less than
**C**. Perpendicular
**D**. Degree
**E**. Equal to
**F**. Greater than or equal to
**G**. Ray
**H**. Similar
**I**. Less than or equal to
**J**. Congruent
**K**. Angle
**L**. Parallel
**M**. Not equal to
**N**. Point
**O**. Greater than
**P**. Segment

**49**. How many undefined terms are in Euclidean geometry? _____

What are they? _____

**Complete the statement with always, sometimes, or never.  Explain your reasoning.**

**50.** A line _____ has endpoints.

**51.** A line and a point _____ intersect.

**52.** A plane and a point _____ intersect.

**53**. Two planes _____ intersect in a line.

**54**. Two points _____determine a line.

**55**. Any three points not on the same line _____ determine a plane.

**56**. Two lines that are not parallel _____ intersect.

**Relate the following geometric terms to real life. What are two examples of each?**

**57.** Plane _____

**58.** Line _____

**59.** Ray _____

**60.** Point _____

**61.** Segment _____

**Algebra Review: Simplify.**

**62.** $|6 + 2|$        **63.** $|3 - 9|$        **64.** $|-8 - 2|$        **65.** $|7 - 11|$

**Algebra Review: Solve each equation.**

**66.** $18 + x = 43$        **67.** $x - 23 = 19$        **68.** $x - 15 = 7$