Geometry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Worksheet 1.2 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_

Directions: Define each term.

1) collinear 2) coplanar

Directions: Choose which are the correct notations for naming the given line.

A

B

t

3) *AB*, , line *t*, T, *BA*, 

A

B

C

D

E

F

*Q*

Directions: Use the diagram at the right to answer problems 4 – 18.

4) Name  in another way.

5) Give two other names for the plane *Q*.

6) Why is *EBD* not an acceptable name for plane *Q*?

Directions: Determine if the following sets of points are collinear. (See above diagram)

7)  and *C* 8) *B* and *F* 9)  and *A* 10) *F* and plane *Q*

Directions: Determine if the following sets of points are coplanar. (See above diagram)

11) *E*, *B*, and *F* 12)  and  13)  and  14)  and 

15) *F*, *A*, *B*, and *C* 16) *F*, *A*, *B*, and *D* 17) plane *Q* and  18)  and 

Directions: Find the intersection of the following lines and planes in the given figure.

19)  and  20) planes *GLM* and *LPN*

G

H

M

L

N

J

P

K

21) planes *GHPN* and *KJP* 22) planes *HJN* and *GKL*

23)  and plane *KJN* 24)  and plane *GHL*

Directions: Use the given figure to answer each problem.

A

B

C

D

*Q*

*P*

25) Name plane *P* another way.

26) Name plane *Q* another way.

27) What is the intersection of planes *P* and *Q*? 28) Are *A* and *C* collinear?

29) Are *D*, A, B, and *C* coplanar? 30) Are *D* and *C* collinear?

31) What is the intersection of  and ? 32) Are planes *P* and *Q* coplanar?

33) Are and plane *Q* coplanar? 34) Are *B* and *C* collinear?