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

Worksheet 1.2 – 1.3 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_

Directions: Use the given diagram to determine whether the statement is *true* or *false*.

X

Y

Z

V

W

l

m

1) Point *X* lies on line *m*. 2) *X*, *Y*, and *Z* are collinear.

3) Point *W* lies on line *m*. 4) *X*, *Y*, and *Z* are coplanar.

5) and are collinear. 6) and are coplanar.

7) and are collinear. 8) and are coplanar.

Directions: Use the figure to name a point that is collinear with the given points.

A

E

B

D

F

H

I

G

C

9) *B* and *E* 10) *C* and *H* 11) *D* and *G*

12) *A* and *C* 13) *H* and *E* 14) *G* and *B*

15) *B* and *I* 16) *B* and *C*

Directions: Use the figure to name a point that is coplanar with the given points.

17) *M*, *N,* and *R* 18) *M*, *N,* and *O* 19) *M*, *T,* and *Q*

P

Q

N

M

T

R

S

O

20) *Q*, *T,* and *R* 21) *T*, *R,* and *S* 22) *Q*, *S,* and *O*

23) *O*, *P,* and *M* 24) *O*, *S,* and *R*

Directions: Sketch the figure described.

25) Three points that 26) Three lines that intersect 27) Three lines that intersect

are coplanar but not collinear. at a single point. at two points.

28) Three lines that intersect 29) Two planes that intersect. 30) Two planes that do not

at three points. intersect.

Directions: Use the figure to determine whether the statement is *true* or *false*.

G

A

C

F

E

B

*P*

D

O

31) *E*, *G*, and *F* are collinear. 32)  and  are opposite rays.

33) *A*, *O*, and *D* are coplanar. 34) lines in plane *P*.

35) *D* and *F* are collinear. 36) Plane *P* can also be named Plane *EOF*.

Directions: Use the given figure to find the intersection of the following.

37)  and plane *LPN* 38) Plane *JKP* and Plane *MHJ*

G

H

M

L

N

J

P

K

39)  and Plane *HJK* 40) Plane *KJML* and Plane *HGL*

41) Plane *GKJ* and Plane *MNP* 42) Plane *MLP* and Plane *LGK*

43)  and  44)  and Plane *KPN*