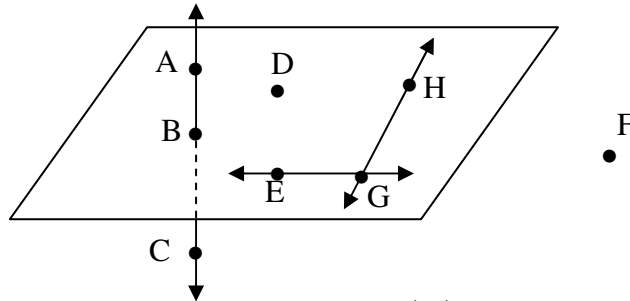


Name: \_\_\_\_\_

Date: \_\_\_\_\_

Points, Lines, and Planes Worksheet A

Use the figure below to answer questions 1- 6.



1) Name the plane with 3 letters: \_\_\_\_\_ (2)  $\overleftrightarrow{AC}$  intersects the plane at what point? \_\_\_\_\_

3)  $\overleftrightarrow{HG}$  and  $\overleftrightarrow{GE}$  intersect at what point? \_\_\_\_\_ (4) Name 3 collinear points: \_\_\_\_\_

5) Name a point NOT on the plane: \_\_\_\_\_ (6) Are points F, D, E and B coplanar? \_\_\_\_\_

Draw and label a figure for each exercise:

7) P (8) Plane XYZ (9)  $\overleftrightarrow{TQ}$  (10)  $f$

11)  $z$  intersecting  $\overleftrightarrow{TQ}$  at M (12) A not on Plane S (13) 3 non collinear points G, T, Y

Use the figure at the right to answer questions 14-20.

14) How many planes are there in the figure? \_\_\_\_\_

15) How many planes contain H? \_\_\_\_\_

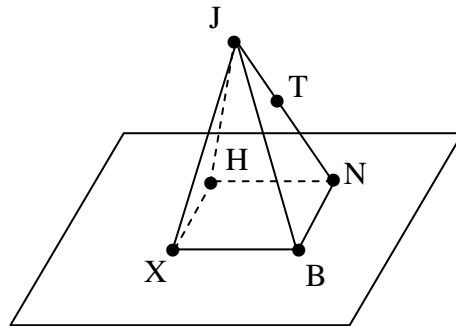
16) Name three collinear points: \_\_\_\_\_

17) Name two points not on the Plane XBN: \_\_\_\_\_

18) Name four points that are coplanar: \_\_\_\_\_

19) Name a line that does NOT contain J: \_\_\_\_\_

20) Name three non-coplanar points: \_\_\_\_\_

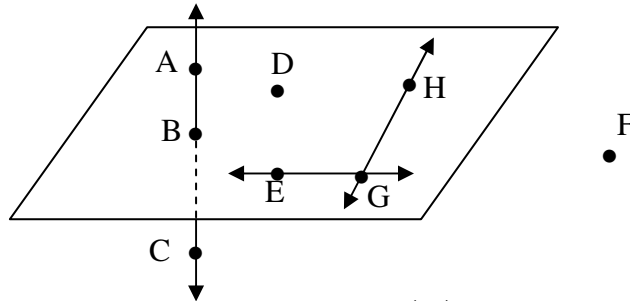


Name: \_\_\_\_\_

Date: \_\_\_\_\_


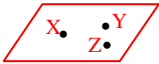
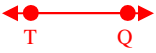

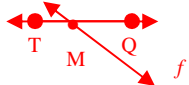


### Points, Lines, and Planes Worksheet A (with answers)

Use the figure below to answer questions 1- 6.



- 1) Name the plane with 3 letters: \_\_\_\_\_ (2)  $\overleftrightarrow{AC}$  intersects the plane at what point? \_\_\_\_\_  
Multiple Answers B  
Example: Plane EGH
- 3)  $\overleftrightarrow{HG}$  and  $\overleftrightarrow{GE}$  intersect at what point? \_\_\_\_\_ (4) Name 3 collinear points: \_\_\_\_\_  
G A, B, and C
- 5) Name a point NOT on the plane: \_\_\_\_\_ (6) Are points F, D, E and B coplanar? \_\_\_\_\_  
A, C, or F No

Draw and label a figure for each exercise:

- 7)  (8) Plane XYZ  (9)  $\overleftrightarrow{TQ}$   (10)  $f$  
- 11)  $z$  intersecting  $\overleftrightarrow{TQ}$  at M  (12) A not on Plane S  (13) 3 non collinear points G, T, Y 

Use the figure at the right to answer questions 14-20.

- 14) How many planes are there in the figure? \_\_\_\_\_  
6
- 15) How many planes contain H? \_\_\_\_\_  
4
- 16) Name three collinear points: \_\_\_\_\_  
J, T, N
- 17) Name two points not on the Plane XBN: \_\_\_\_\_  
J and T
- 18) Name four points that are coplanar: \_\_\_\_\_  
H, N, X and B
- 19) Name a line that does NOT contain J: \_\_\_\_\_  
Several Examples:  $\overleftrightarrow{XB}$
- 20) Name three non-collinear points: \_\_\_\_\_ Several examples: X, B, N

