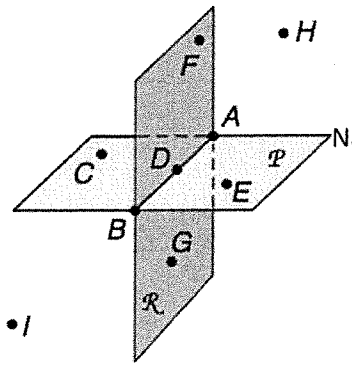
Unit 1 Test Review Guide (Geo.)

1) I can identify and label a point, line, segment, ray and plane.

a)



Name a point_____

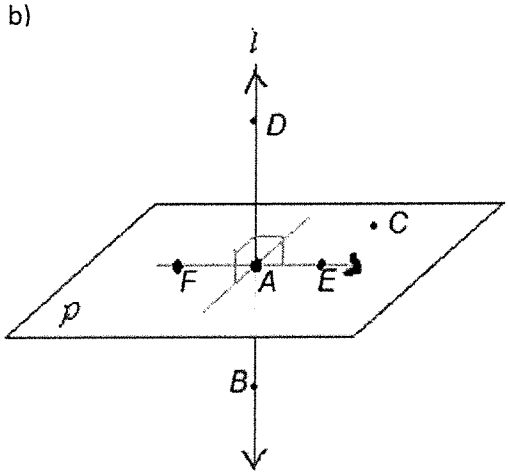
Name a segment _____

Name the horizontal plane in two different ways _____

Are points B, C and I coplanar? Why?

Name all possible lines, rays and segments formed by points D and B

b)



Name the vertical line in two different ways_____

$\overrightarrow{AE}$ is an example of _____

Name all the coplanar points related to the given plane_____

Name all the points not on the given plane_____

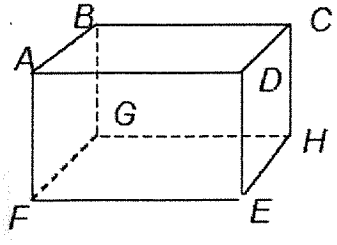
Are points A, B and C collinear? Why?

Are points C and D collinear? Why?

Name two opposite rays_____

Name the given plane in two different ways_____

c)



Name the plane represented by the top of the box._____

Name the intersection of plane DCH and plane ABC_____

Name the intersection of plane FGH, plane BCH and plane ABF_____

Modify the drawing in such way that $\overline{EF}$ *becomes* $\overrightarrow{FE}$.

2) I can construct a geometric model given description

a) Draw and label a figure based on the following description. Lines GH and JK intersect at L. Point M is coplanar with these points but not collinear with G and H.

b) Draw a horizontal line passing through D and E. Name it line *m*. Draw $\overrightarrow{DF}$ pointing in North direction. Draw the plane formed by the line m and $\overrightarrow{DF}$ and name it plane P. Draw $\overline{AB}$ parallel to line m but not coplanar with it.

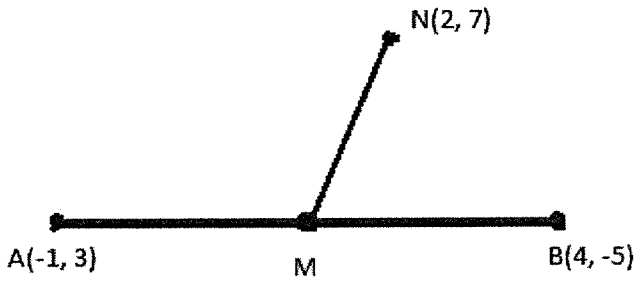
3) **Use/know/apply appropriate formulas based on the context**

- Distance formula

- Midpoint formula

a) If an objects travel from A(-5, -6) to B(3, 5) and then to C(8, -2), what is the total distance traveled?

b)



In the figure above M is the midpoint of the segment AB. What is the length of the segment MN?

c) A quadrilateral has the following vertices: M(-3,2), N(-1, 4), P(2, 5) and R(4, 10). Find the perimeter of quadrilateral MNPR and the midpoint of the diagonal MP.

d) The segment FG has the endpoint F at (-3, -5). If its midpoint has the coordinates (-2, -8), what are the coordinates of the other endpoint, G?