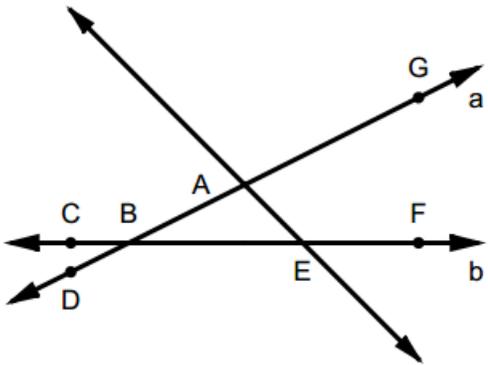**1) Answer each question using the figure below.**

a)   Name line *a* in three other ways.

b)   Name line *b* in three other ways.

2) Collinear points are points that lie on the same line. Determine if the three points listed in each exercise below are collinear and, if so, name the line that contains them. Use the figure above.

a) *A, B, E*
b) *A, G, E*
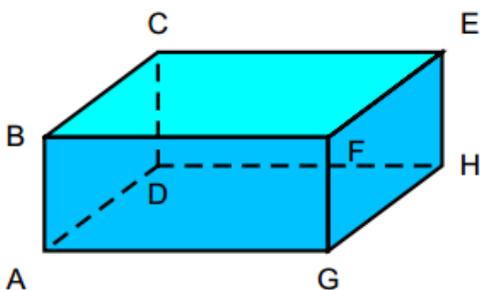c) *B, C, D*

d) *A, G, F*
e) *B, F, D*
f) *C, B, F*

3) State whether each object represents a *point, line, or plane.*

a) A shoestring: _____

b) A knot in a shoestring: _____

c) The bottom of your shoe: _____

4) Name the plane represented by each surface of the box.

a) the top
b) the bottom
c) the front side
d) the back side
e) the right side
f) the left side

5) Complete the following statements with A̲lways, S̲ometimes, or N̲ever.

a) Three points are _____ coplanar.
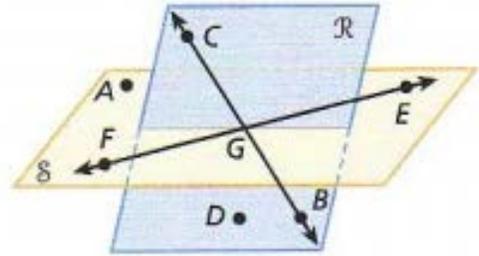b) Three points _____ define exactly one plane.
c) Two points _____ form a line.
d) If *M* is the midpoint of $\overline{AB}$ then *AM* is _____ equal to *MB*.

6) **Use the figure at the right to name:**
   a) the common endpoint of opposite rays $\overrightarrow{GC}$ and $\overrightarrow{GB}$.
   b) four coplanar points.
   c) the line containing B and C.
   d) the plane that contains A, G and E.

7) **Draw and label:**
   a) three coplanar lines intersecting in one point.
   b) a line containing P and Q
   c) a pair of opposite rays both containing C.
   d) $\overleftrightarrow{CD}$ intersecting plane P at B.

8) How are a line and a line segment the same?

   _____

9) How are a line and a line segment different?

   _____

10) How are a line segment and a ray the same?

   _____

11) How are a line segment and a ray different?

   _____