1. Identify each of the following in the figure shown.
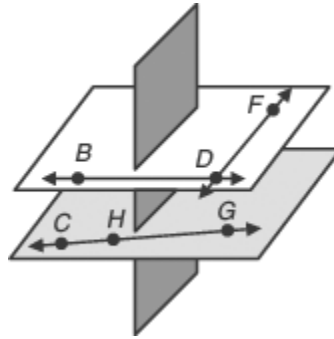
    a.   Name 3 collinear points.

    b.   Name 2 coplanar lines.

    c.   Name 2 skew lines.

2. Draw and label three collinear points X, Y, and Z such that point Y is between points X and Z and the distance between points X and Y is one half the distance between points Y and Z.

3. **Use a symbol to represent the name of each geometric figure.**

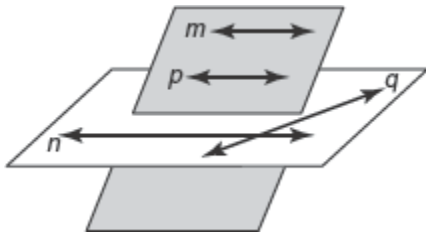   **a.**

    b.

    c.

Draw a figure for each description. Label all points mentioned in the description.

4. Points A, D, and X are collinear such that point A is located halfway between points D and X.

Identify all examples of coplanar lines in each figure.
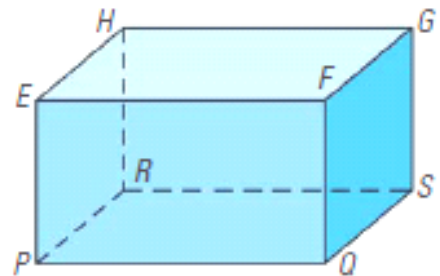
5.

6. Complete the following with always, sometimes or never.

    a) A line and a point are _____coplanar.

    b) Two segments are _____coplanar.

    c) Opposite rays _____have the same endpoint.

    d) Two points are _____collinear.

For 7-9, Use the diagram at the right.

7. Name the intersection of plane PQS and plane EFQ.

8. Are the points P, Q, and F collinear? Are they coplanar?

9. Are points P and G collinear? Are they coplanar?