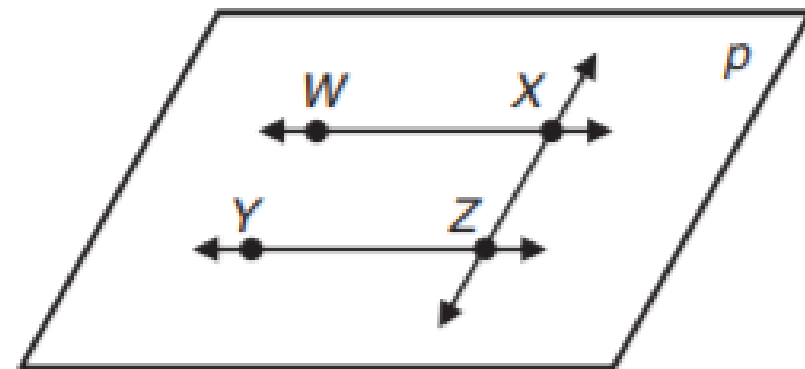# Let's Get This Started!

Points, Lines, Planes, Rays, and Line Segments

1. Identify each of the following in the figure shown.

   a. Name all points.
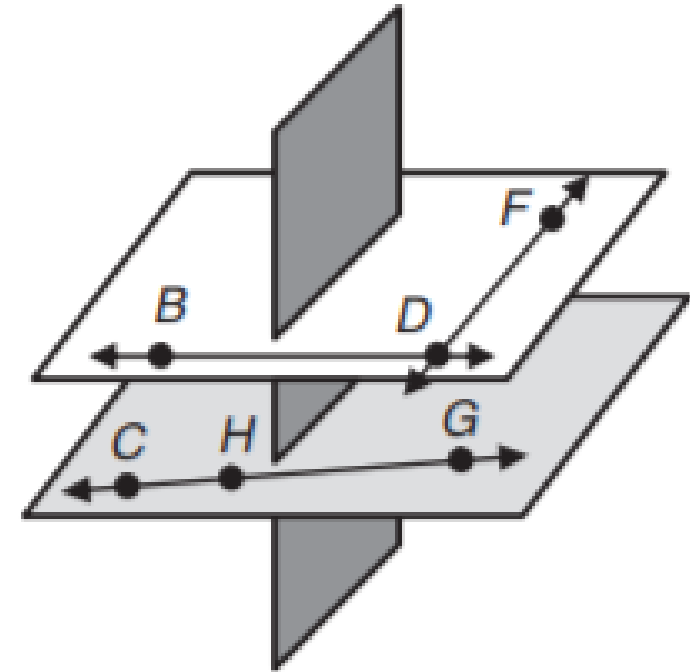
   b. Name all lines.

   c. Name all planes.

2. Identify each of the following in the figure shown.

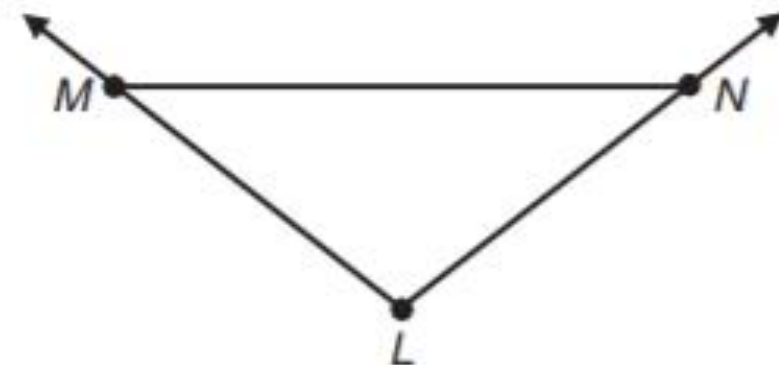   **a.** Name all collinear points.

    b. Name all coplanar lines.

    c. Name all skew lines.

3. Identify each of the following in the figure shown.

   a. Name all rays and identify each endpoint.

   b. Name all line segments and identify the endpoints.

4. Explain the differences among sketching a geometric figure, drawing a geometric figure, and constructing a geometric figure.
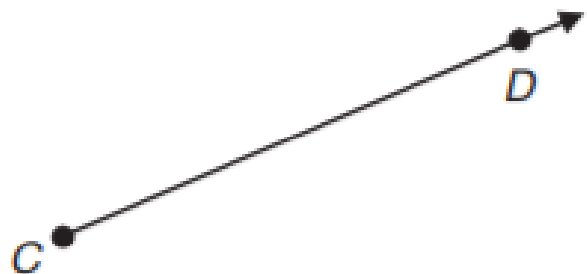
5. Sketch two planes whose intersection is a line.

6. Sketch three planes whose intersection is a point.

7. 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.

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

a.

D

C

b.

P

Q

c.

H

G