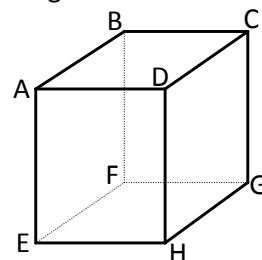


1. Examine the illustration. Identify the places where lines intersect each other. What kind of geometric figure is the intersection of two lines?

POSTULATE: The intersection of two lines is a **Point**.

Follow-Up Questions: How many lines intersect at each corner of the figure? **3**



2. Identify the places in the illustration where planes intersect each other. What kind of geometric figure is the intersection of two planes?

POSTULATE: The intersection of two planes is a **Line**.

Follow-Up Questions: How many planes intersect at each corner of the figure? **3**

The intersection of three planes is a **Point**.

3. Look at A and B in the illustration. How many lines pass through both of these points? **1**

POSTULATE: Through any two points there is **exactly one line**.

Follow-Up Questions: How many points are on a line? **Infinite**

How many points are used to name a line? **2**

4. Look at A, B, and C in the illustration. How many planes pass through these three non-collinear points? **1**

POSTULATE: Through any three non-collinear points there is **Exactly one plane**.

Follow-Up Questions: How many points are in a plane? **Infinite**

How many points are used to name a plane? **3**

How many lines are in a plane? **infinite**

5. Pick any plane in the illustration. Then pick two points that are in the plane. Name the line that passes through these two points. **\overleftrightarrow{AD}** Is the line in the plane that you picked? **yes**

POSTULATE: If two points are in a plane, then the line containing them **Is also in the plane**.