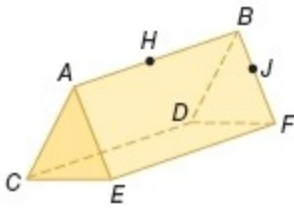


## 1-1 Points, Lines, and Planes

Refer to the figure.



10. Are points  $A$ ,  $H$ ,  $J$ , and  $D$  coplanar? Explain.

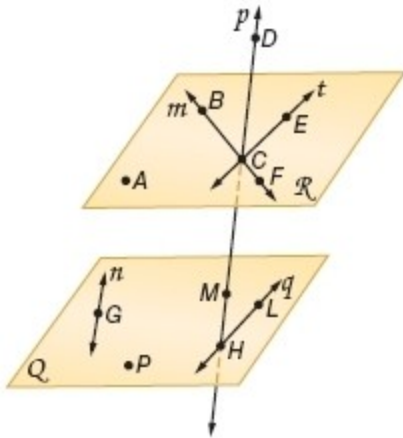
**SOLUTION:**

Coplanar points are points that lie in the same plane. Here, the points  $A$ ,  $H$ , and  $J$  lie in plane  $ABF$ , but point  $D$  does not lie in plane  $ABF$ . So the answer is no, the points are not coplanar.

**ANSWER:**

No; points  $A$ ,  $H$ , and  $J$  lie in plane  $ABF$ , but point  $D$  does not lie in plane  $ABF$ .

Refer to the figure.



14. How many planes are labeled in the figure?

**SOLUTION:**

There are two planes labeled in the figure, namely  $Q$  and  $R$ .

**ANSWER:**

2

Name the geometric term(s) modeled by each object.

30. two connected walls

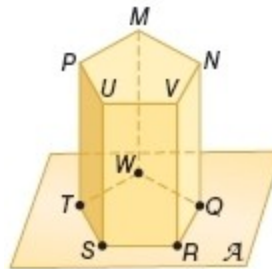
**SOLUTION:**

Each wall models a plane. Two connected walls model intersecting planes.

**ANSWER:**

intersecting planes

Refer to the figure below.



46. In what line do planes  $A$  and  $QRV$  intersect?

**SOLUTION:**

The plane  $QRV$  contains the rectangle  $QRVN$ . This rectangle intersects the plane  $A$  in the line  $\overline{QR}$ .

**ANSWER:**

$\overline{QR}$