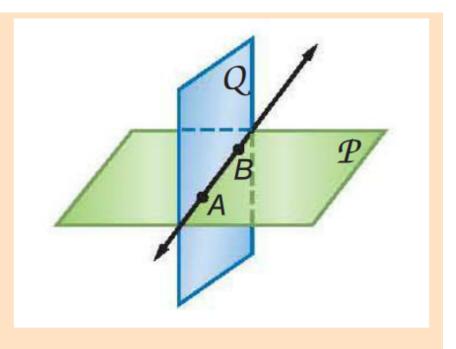
Points, Lines and Planes





You will identify and model, points, lines, and planes. You will identify intersecting lines and planes. You will use correct terminology to describe geometric figures.

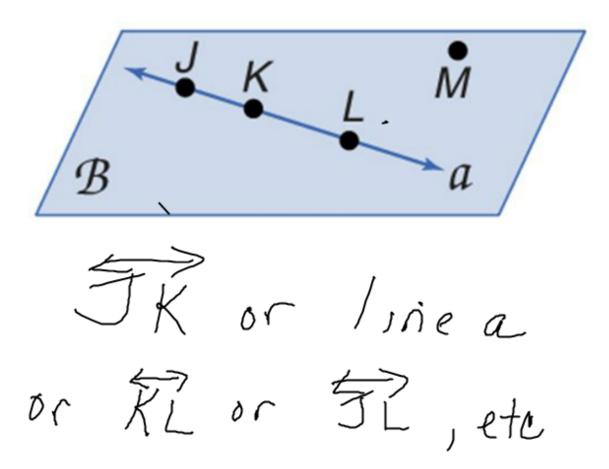
Undefined Terms			
	Description	Named by	Example
Point	location in space	Capital Letter	• A
	·		
Line	Series of points goes in 2 directions	Use 2 points	∠ B B
	goes in 2	lower case script letter	AB on line of
Plane	Collection of Points or lines	3 noncollinear points	Plane BCD B
	that form	0	
	a flat surface	Capital Seript letter	P.
		ji ne i	- flune B

Collinear - on the same line

Coplanar - in the same plane

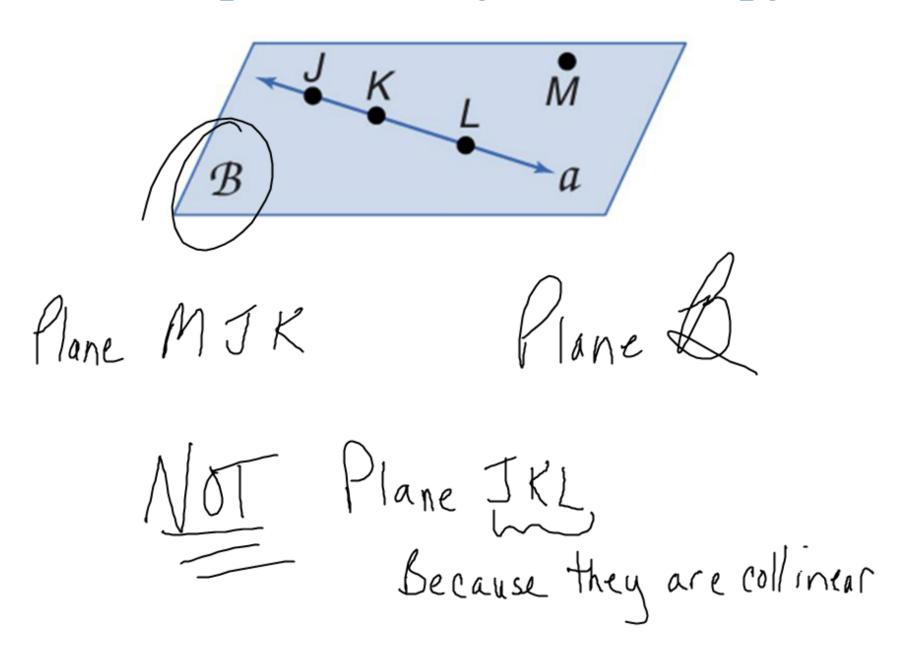


A. Use the figure to name a line containing point *K*.



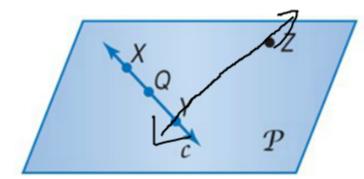
EXAMPLE 1

B. Use the figure to name a plane containing point *L*.





A. Use the figure to name a line containing the point X.



A. line X

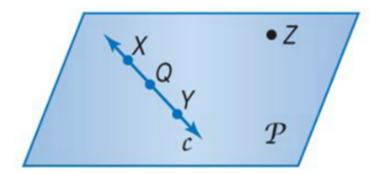


C. line Z

D. \overrightarrow{YZ}



B. Use the figure to name a plane containing point Z.



- A. plane XY
- B. plane c
- C. plane XQY

plane P





A. Name the geometric shape modeled by a colored dot on a map used to mark the location of a city.



B. line segment

C. plane

D. none of the above





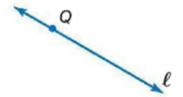


B. Name the geometric shape modeled by the ceiling of your classroom.

A. point

B. line segment

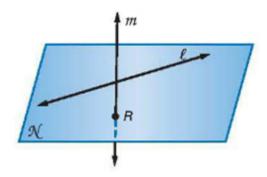
D. none of the above



Point Q is on ℓ .

Line ℓ contains Q.

Line ℓ passes through Q.



Line ℓ and point R are in \mathcal{N} .

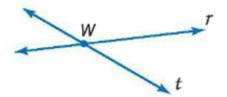
Point R lies in \mathcal{N} .

Plane \mathcal{N} contains R and ℓ .

Line m intersects \mathcal{N} at R.

Point *R* is the intersection of *m* with \mathcal{N} .

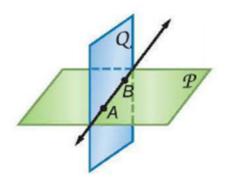
Lines ℓ and m do not intersect.



Lines *t* and *t* intersect at *W*.

Point *W* is the intersection of *r* and *t*.

Point *W* is on *r*. Point *W* is on *t*.



 \overrightarrow{AB} is in \mathcal{P} and Q.

Points A and B lie in both \mathcal{P} and Q.

Planes \mathcal{P} and Q both contain \overrightarrow{AB} .

Planes \mathcal{P} and Q intersect in \overrightarrow{AB} .

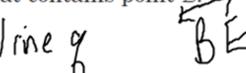
 \overrightarrow{AB} is the intersection of \mathcal{P} and Q,

1-1 Skills Practice

Points, Lines, and Planes

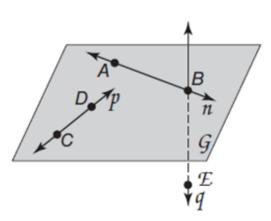
Refer to the figure.

1. Name a line that contains point £.



2. Name a point contained in line n.





3. What is another name for line p?



4. Name the plane containing lines n and p.



Plane DAB

Draw and label a figure for each relationship.

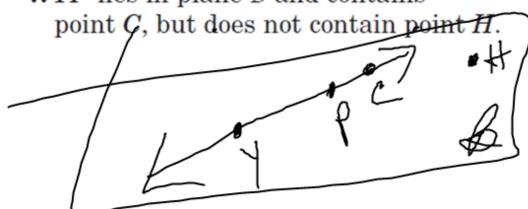
5. Point K lies on \overrightarrow{RT} .



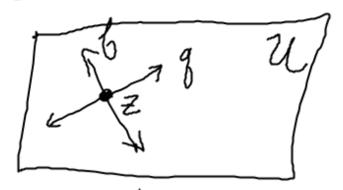
6. Plane \mathcal{I} contains line \mathcal{S} .



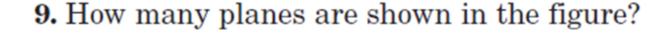
7. \overrightarrow{YP} lies in plane \mathcal{B} and contains point C, but does not contain point H.

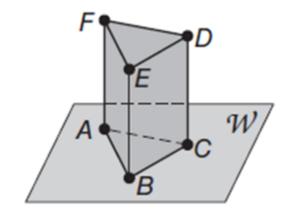


8. Lines q and f intersect at point Zin plane u.



Refer to the figure.





10. How many of the planes contain points F and E?

2

11. Name four points that are coplanar. (other answers also) A, E, F, B

12. Are points A, B, and C coplanar? Explain.

yes, they are all in Plane W