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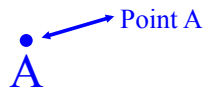
Points, Lines and Planes

Point

- a location in space
- has no specific size or shape

Labeling

- Dot with a Capital Letter

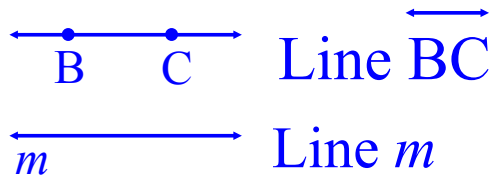


Line

- made up of an infinite number of points

Labeling

- Two upper case letters, with a line symbol above.
- One lower case cursive letter



Plane

- a flat surface created by a minimum of 3 non-collinear points

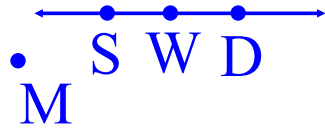
Labeling

- Minimum of 3 upper case letters
- One upper case cursive letter



Collinear

- minimum of 3 points that lie on the same line.

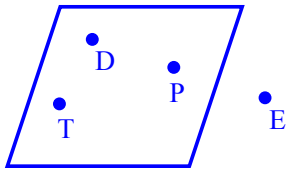


Points S, W and D are collinear

Points S, W, D and M are non-collinear

Coplanar

- 3 or more points that lie within the same plane

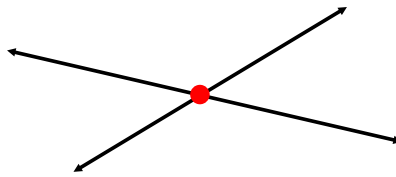


Points T, D and P are coplanar

Points T, D, P and E are non-coplanar

Intersection

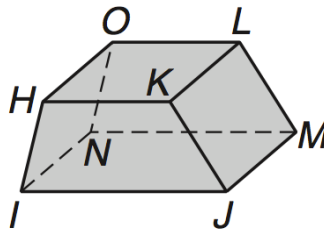
Location where two or more lines touch.



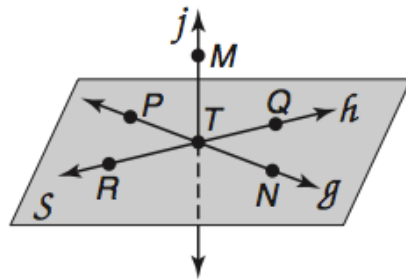
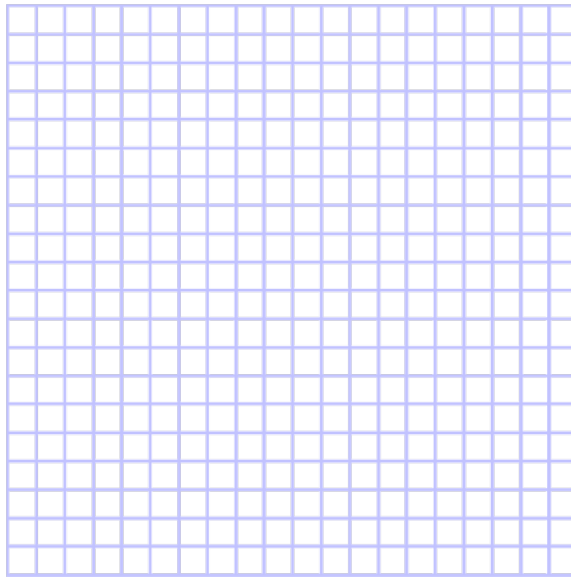
** Two planes intersect at a line*

(think of folding a piece of paper in half to create two planes)

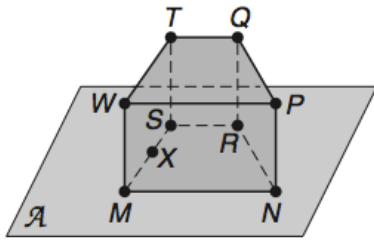
Vertices



Edges



1. Name a line that contains points T and P .
2. Name a line that intersects the plane containing points Q , N , and P .
3. Name the plane that contains \overleftrightarrow{TN} and \overleftrightarrow{QR} .



6. How many planes are shown in the figure?
7. Name three collinear points.
8. Are points N , R , S , and W coplanar? Explain.