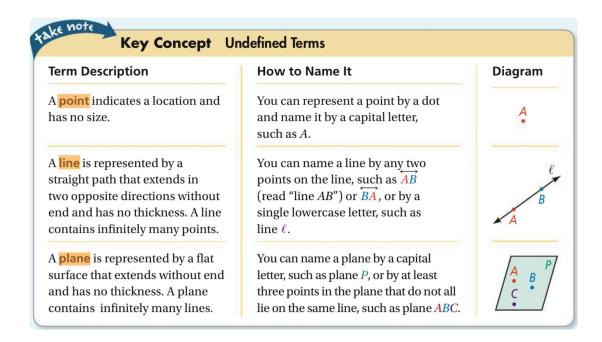
POINTS, LINES, AND PLANES

Goal: To understand basic terms of geometry.



Def: Points that lie on the same line are

Fact: A line is made up of an infinite amount of collinear points.

Def: Points and lines that lie in the same plane are

Fact: A plane is made up of an infinite number of coplanar lines.

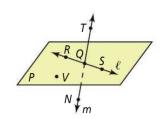
Note: All the points of a line are coplanar.

Ex 1) Use the diagram shown to answer the questions below.

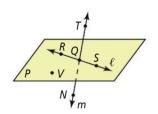
B) What are two other ways to name plane P?

<u>Note:</u> You must name a plane by listing the points in consecutive order, in either the clockwise or counter-clockwise direction around the plane.

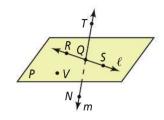
C) What are the names of three collinear points?



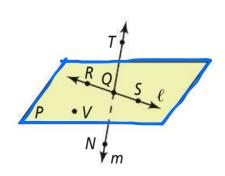
D) What are the names of four coplanar points?

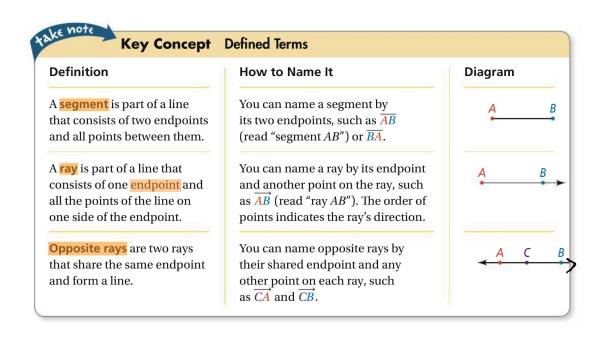


E) What are two other ways to name RS?

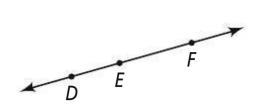


F) What are two points that are NOT coplanar with points R, S, and V?



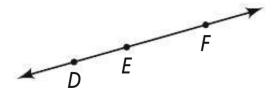


Ex 2) Use the figure given to answer the following questions.



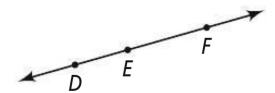
A) What are the names of the segments in the

figure?

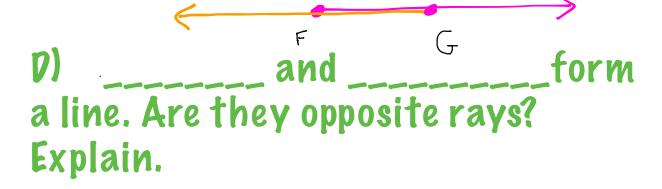


B) What are the names of the rays

in the figure?



C) Which rays are opposite rays?



Intersections:

Lines intersect at exactly one _____.

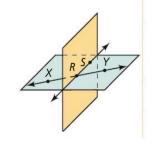
Planes intersect at exactly one _____.

**2 strings/2 papers

Lesson Check:

Use the figure to answer these questions:

What are 2 other names for



2. Find a set of opposite rays

3. What is the intersection of the 2 planes (name it)

Lesson Check part 2:

4. A segment has end points R and S-what are two ways to name it?

5. A) Draw these 2 rays: AB, BA

B) Are the 2 rays the same? Why?

- 6. A) How is naming a ray similar to naming a line?

B) How is it different?