

Name: _____ Teacher: _____ Date: _____

Points, Lines, and Planes

Guided Notes: STUDENT EDITION

A Point: is simply a _____. **Example:**

Drawn as a _____.

Named by a _____ letter.

Words/Symbols:

A Line: is made up of _____ and has no thickness or _____.

Drawn with an _____ at each end.

Named by the _____ representing two points on the line or a lowercase script letter.

Points on the same _____ are said to be _____.

Words/Symbols: **Example:**

A Plane: is a _____ surface made up of _____.

Drawn as a _____ 4-sided figure.

Named by a _____ script letter or by the letters naming three _____ points.

Points that lie on the same plane are said to be _____.

Words/Symbols:

Example:

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Example #1: Use the figure to name each of the following.

Name a line that contains point P .

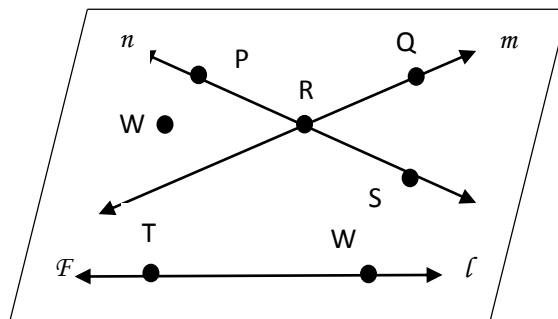
Name the plane that contains lines n and m .

Name the intersection of lines n and m .

Name a point not on a line.

What is another name for line n .

Does line l intersect line n or line m ? Explain.



Example #2: Draw and label a figure for the following relationship.

a.) Point T lies on WR . b.) AB intersects CD in plane Q at point P .

Example #3:

a.) How many planes appear in this figure?

b.) Name three points that are collinear.

c.) Are points A , B , C , and D coplanar? Explain.

d.) At what point do CA and DB intersect?

