

## Geometry Ch 1.1 - Getting Started

### Objectives:

Recognize **points**, **lines**, **line segments**, **rays**, **angles**, and **triangles**.

### **Agenda:**

- 1) Check the glossary HW
- 2) Pass out Packets and Books
- 3) Review Union and Intersection & Symbols
- 4) Notecard Activity
- 5) Extra Practice Worksheet

***HW: Worksheet 1-9 Intersection and Union  
Worksheet (No electronic version)***

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**1.1 ACTIVITY****When planes meet, what points do they have in common?**

**Step 1:** Label two index cards as shown. Cut each card along the dotted line.

*Plane M = blue*

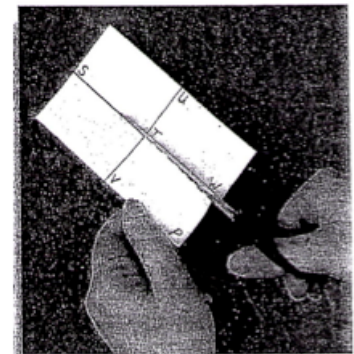
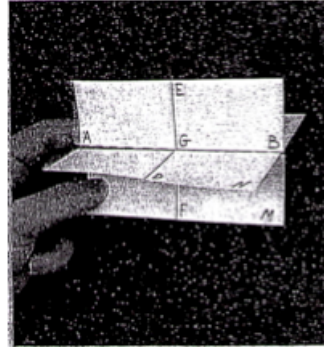
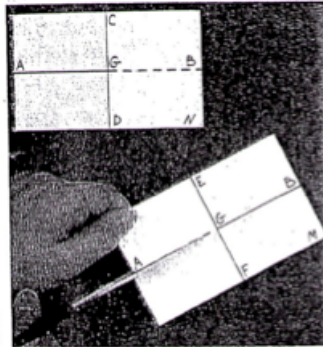
*Plane N = green*

**Step 2:** Slide the two cards together and answer questions #1-7.

**Step 3:** Label and cut a third card (pink) as shown. Cut another slot in Plane M and slide the cards together. Then, answer questions #8-10.

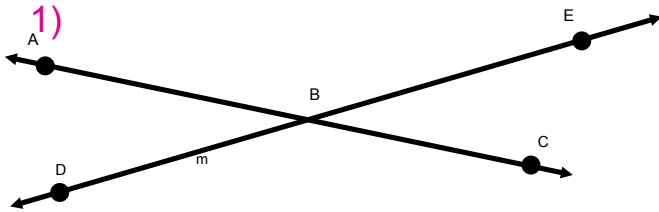
**NOTE:**

The index cards represent planes but you must imagine the planes extend without end.

**Questions:**

1. Name 3 points on plane M.	
2. Name 3 points on plane N.	
3. Name a line containing G.	
4. Where do $\overline{AB}$ and $\overline{CD}$ meet?	
5. When the cards are together, where do $\overline{CD}$ and $\overline{EF}$ meet?	
6. Where do plane M (blue) and plane N (green) meet?	
7. Are $\overline{CD}$ and $\overline{EF}$ on the same plane? Explain your answer.	
8. Where do $\overline{EF}$ and $\overline{UV}$ meet?	
9. Where do plane M (blue) and plane P (pink) meet?	
10. Do plane N (green) and plane P (pink) meet?	

## Practice



a) How many lines are shown?

b) Name these lines.

c) Where do  $\overleftrightarrow{AC}$  and  $\overleftrightarrow{DE}$  intersect?

d) Where does  $\overleftrightarrow{AC}$  intersect  $\overleftrightarrow{BC}$ ?  
 $(\overleftrightarrow{AC} \cap \overleftrightarrow{BC} = \text{_____})$

e) What is the union of  $\overleftrightarrow{BA}$  and  $\overleftrightarrow{BD}$ ?  
 $(\overleftrightarrow{BA} \cup \overleftrightarrow{BD} = \text{_____})$

3) Draw a diagram in which the intersection of  $\overleftrightarrow{AB}$  with  $\overleftrightarrow{CA}$  is  $\overleftrightarrow{AC}$ .  
 $(\overleftrightarrow{AB} \cap \overleftrightarrow{CA} = \overleftrightarrow{AC})$

2)



a) Name the ray that has endpoint A and goes in the direction of C.

b) Name the segment joining A and B.

4) Draw a diagram in which  $\triangle ABC \cap \overleftrightarrow{DE} = F$ .