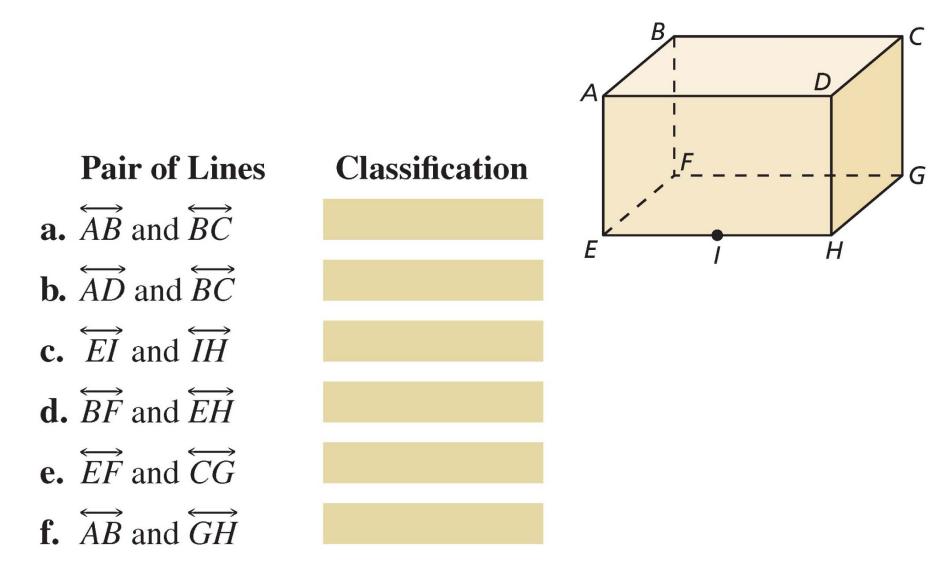
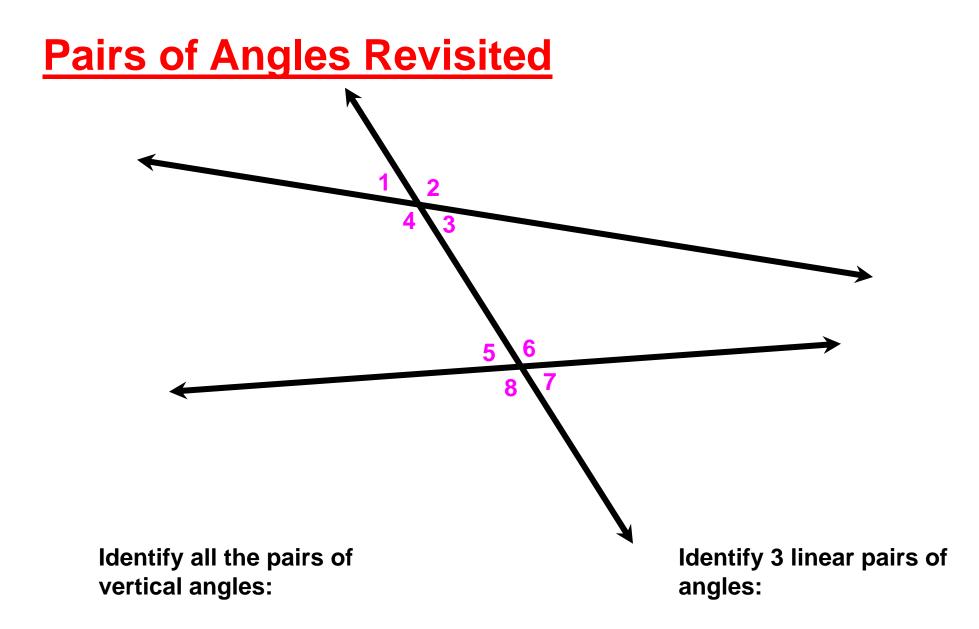


- Identify Lines and Planes
- Identify Parallel and Perpendicular Lines
- Identify pairs of angles formed by transversals

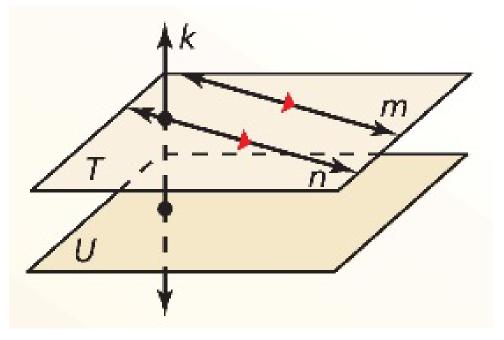
### Pairs of Lines Revisited

Classify each of the following pairs of lines as parallel, intersecting, same line, or skew.





### **Bringing it together**



Lines m and n are

Lines m and k are

Planes T and U are

Lines k and n are

### **Parallel and Perpendicular Lines**

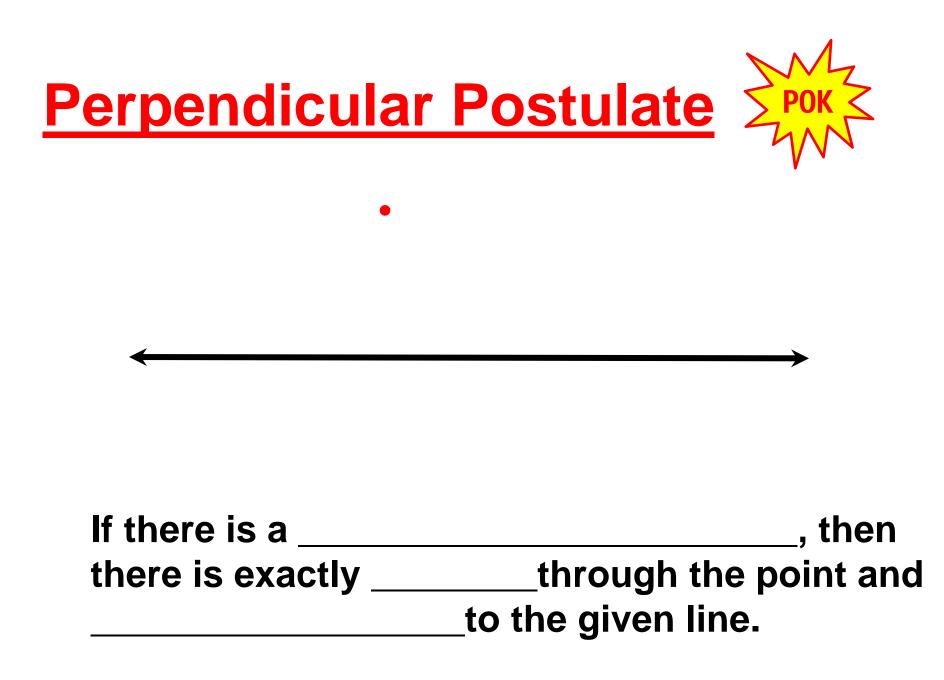
- This line and point are on the same plane.
- The point is not on the line.
- How many lines can go through the point and be parallel to the given line?
- Do we accept this as true? Can we prove it with previous knowledge?



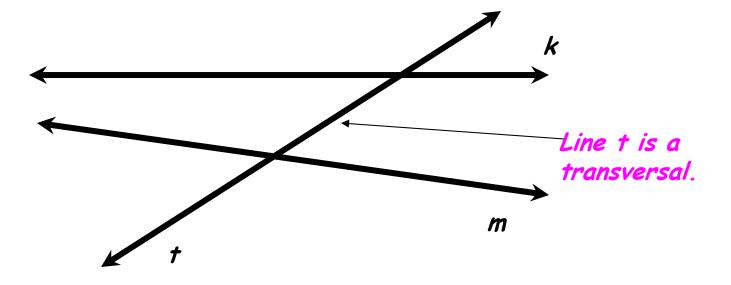
If there is a \_\_\_\_\_\_, then there is exactly \_\_\_\_\_through the point and \_\_\_\_to the given line.

### **Parallel and Perpendicular Lines**

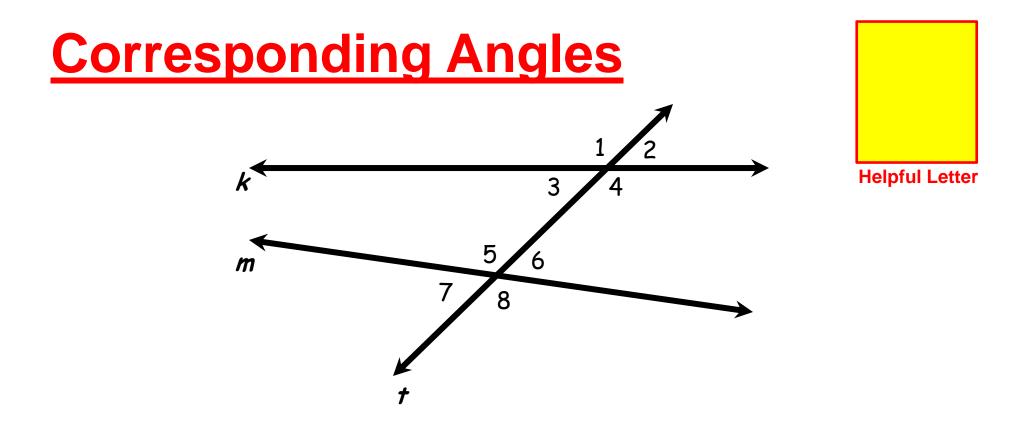
- This line and point are on the same plane.
- The point is not on the line.
- How many lines can go through the point and be perpendicular to the given line?
- Do we accept this as true? Can we prove it with previous knowledge?



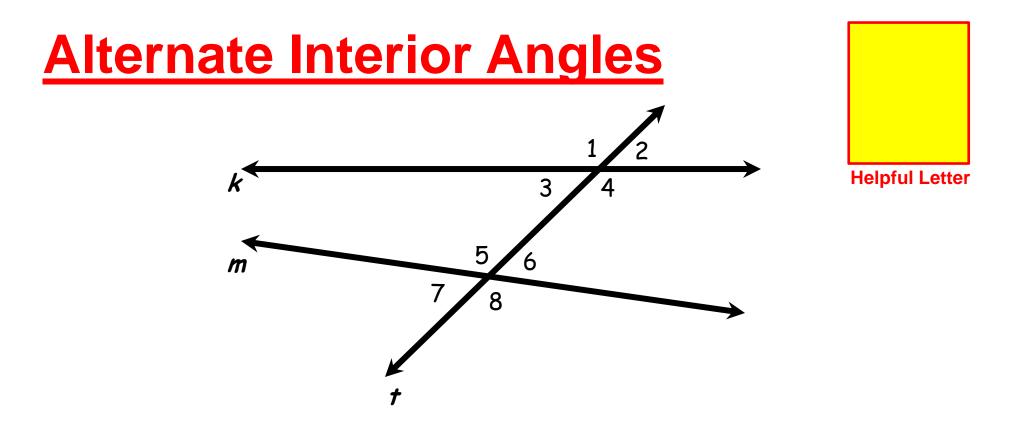
### What is a transversal?



# A line that \_\_\_\_\_\_two or more lines in different points.

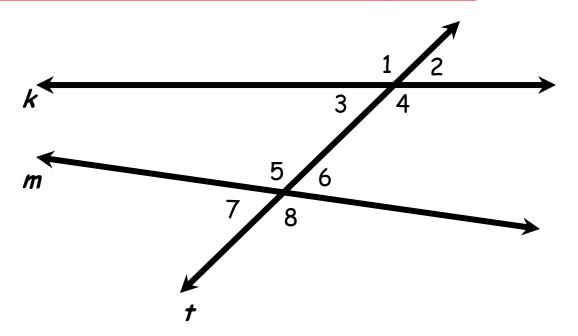


# Corresponding angles lie on the \_\_\_\_\_\_of the transversal and in \_\_\_\_\_\_positions.

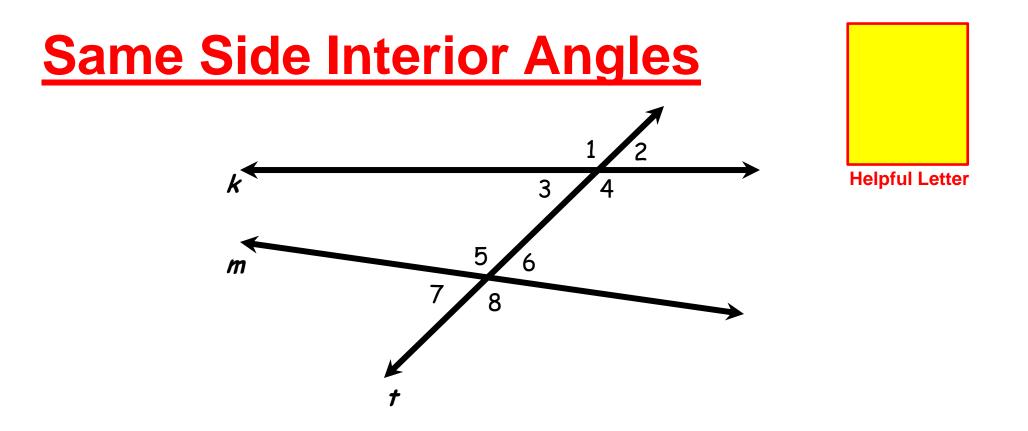


# Alternate interior angles lie on the \_\_\_\_\_of the transversal. They are \_\_\_\_\_the two lines being crossed.

### **Alternate Exterior Angles**



# Alternate exterior angles lie on the \_\_\_\_\_\_ of the transversal. They are \_\_\_\_\_\_ the two lines being crossed.



Same Side Interior Angles lie on the \_\_\_\_\_of the transversal, and are \_\_\_\_the two lines being crossed. (Consecutive Int. Angles)