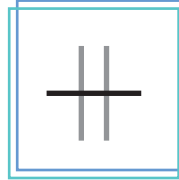


# Visualizing Intersections

NCTM Standards 1, 6, 10

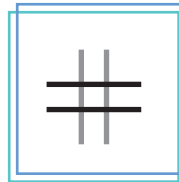
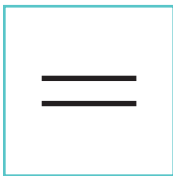
How many horizontal lines? How many vertical lines? How many intersections?

1



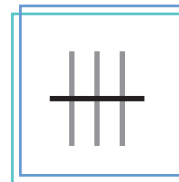
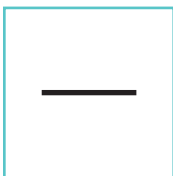
—	1
	2
+	2

2



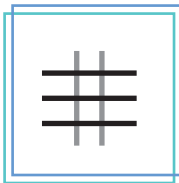
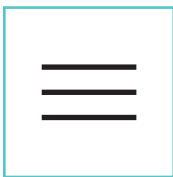
—	
+	

3



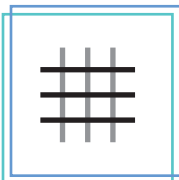
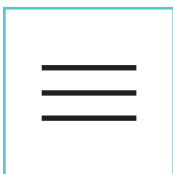
—	
+	

4



—	
+	

5

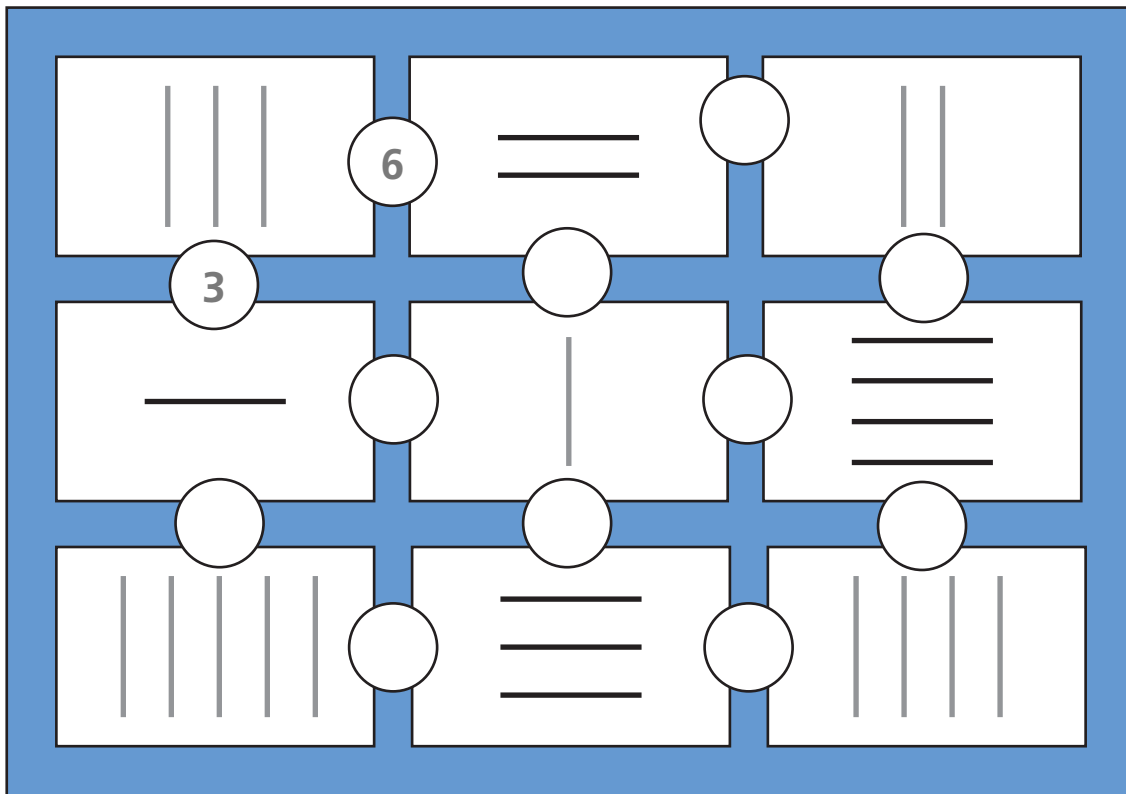


—	
+	

**Solve the problem.**

6 Yuji drew 4 horizontal lines on a transparency. Sandra drew some vertical lines on a transparency. They stacked their transparencies and counted 8 intersections. How many vertical lines did Sandra draw? \_\_\_\_\_

7 Each circle touches two sets of lines. In each circle, write the number of intersections you would see if the two sets of lines were both part of the same map.



8 **Challenge** Complete the table.

—	2		4	3	
		3	4		2
+	6	9		12	8