

Lesson 3-8

Problem

TRAVEL Four friends talked about their trips to different states. Andrew and Deanne discussed the differences among the states they visited, even though each state started with a vowel.

Nathan told Emily that he liked traveling in Wisconsin. Emily visited Iowa or Florida. Deanne visited the other. One person talked about sightseeing in Ohio. Where had each person gone on vacation?

Solution

Make a table listing each person and each state.

Andrew and Deanne went to states that begin with a vowel. Put an **X** in the boxes to show what states they could not have visited.

	Andrew	Deanne	Nathan	Emily
Ohio				
Iowa				
Wisconsin	X	X		
Florida	X	X		

Nathan visited Wisconsin. Use an **O** to show that information. Notice that the rest of each row and column is filled with **X**s.

	Andrew	Deanne	Nathan	Emily
Ohio			X	
Iowa			X	
Wisconsin	X	X	O	
Florida	X	X	X	

Notice, then that Emily is the only one who could have visited Florida.

Finally, Deanne visited either Iowa or Florida. Because Iowa is the one that begins with a vowel, it must have been Iowa. So, by process of elimination, Andrew must have visited Ohio.

	Andrew	Deanne	Nathan	Emily
Ohio			X	X
Iowa			X	X
Wisconsin	X	X	O	X
Florida	X	X	X	O