

# Problem-Solving Strategy: Use Logical Reasoning

**Problem** For lunch, Emma, Rosa, and Vanya each bring a sandwich (a tuna roll, a turkey wrap, or a veggie wrap) and a drink (water, milk, or apple juice). Both Rosa and Emma bring wraps. Vanya does not drink juice. Emma does not eat fish or meat and is allergic to apple juice. The person who brings tuna doesn't bring water. What does each person bring for lunch?



What is the question? \_\_\_\_\_  
 \_\_\_\_\_

What are the sandwiches and drinks? \_\_\_\_\_  
 \_\_\_\_\_

What do you know about:                      **a.** Emma? \_\_\_\_\_

**b.** Rosa? \_\_\_\_\_                      **c.** Vanya? \_\_\_\_\_

What other fact do you know? \_\_\_\_\_



How can logical reasoning help you solve the problem?  
 \_\_\_\_\_



Fill in the table with person's name, sandwich, and drink.  
 Then write *yes* or *no*.

	Sandwich			Drink		
Name						

What is the solution? \_\_\_\_\_



How did the table help you to solve the problem?  
 \_\_\_\_\_