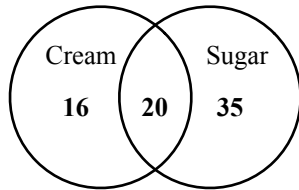


MathFLIX CHALLENGE

Problem Solving Strategy: Special Diagrams - Venn & Carroll

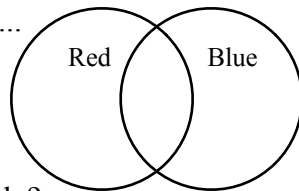
Problem Solving Using Venn Diagrams

1. Ryan asked 71 coffee drinkers whether they preferred cream or sugar in their coffee. According to this Venn diagram how many like....



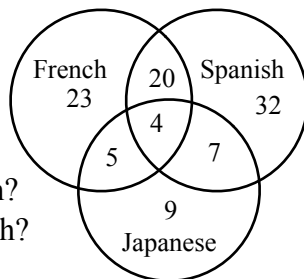
- Cream?
- Sugar?
- Sugar but not cream?
- Cream but not sugar?
- Cream and sugar?
- Cream or sugar?

2. Jabreel did a study of the colors used in African national flags. He found that 33 flags have red, 20 have blue, 13 have both red and blue, and 8 have neither red nor blue. How many flags....



- have red but not blue?
- have blue but not red?
- were included in the study?

3. Diane asked 100 adults whether they had studied French, Spanish or Japanese in school. According to the Venn diagram below, how many had studied....



- Spanish?
- Spanish but not French?
- Japanese but not French?
- French and Spanish?
- French or Spanish?
- French and Spanish but not Japanese?

Problem Solving Using Carroll Diagrams

Put these numbers on the Carroll diagram:
1,2,3,4,5,6,7,8, 9, 10, 11,12, and 13

	Odd	Even
Prime		
Not Prime		

In an adult class there are more male basketball players than female.

There are:
12 males altogether
5 males play tennis
13 adults who play basketball
8 females who play a sport.

	Males	Females
Tennis	5	
Basketball		
	12	13

How many people in the class? _____
How many females play tennis? _____

	Males	Females
Teachers		
Students		
	18	20
	5	48

At camp there are:

18 girls
20 females
5 teachers
48 students

How many males at camp? _____
How many at the camp altogether? _____