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
16      20
```

a) Cream?
b) Sugar?
c) Sugar but not cream?
d) Cream but not sugar?
e) Cream and sugar?
f) 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....

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Red  Blue
a) have red but not blue?
b) have blue but not red?
c) were included in the study?
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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....

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French  Spanish  Japanese
23      20      4
```

a) Spanish?
b) Spanish but not French?
c) Japanese but not French?
d) French and Spanish?
e) French or Spanish?
f) 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

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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.

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

At camp there are:
18 girls
20 females
5 teachers
48 students

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