06-01-Sample Quiz-Sets

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. A teacher asked her students which of them went to Stone Mountain Park and which of them went to Six Flags over the summer break. She created a chart.

<table>
<thead>
<tr>
<th>Name</th>
<th>Stone Mountain Park</th>
<th>Six Flags Park</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allison</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Ben</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cassie</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>David</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Elise</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Felix</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gerald</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Haley</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ivan</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>John</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Karla</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Which VENN diagram shows the correct quantities in each region based on the chart above?

a.  

b.  

c.  

2. A teacher is making a VENN diagram of his students. The teacher wants to consider which students have a pet dog and which have a pet cat. His student Jessica has a cat and a dog. In which region or regions would this place Jessica in the VENN diagram shown?

a. Region A and C  
b. Region A, B, and C  
c. Region B only  
d. Region D only
3. A teacher asked how many of her students if they have any relatives living in some of the states bordering Georgia.

How many of her students have relatives that live in Alabama and Florida?

a. 3  
b. 5  
c. 2  
d. 15

4. An teacher asked her students in her 1st period which streaming movie services they had access to at their house and created the VENN diagram to display the data.

How many students would be in the set \((\overline{\text{Netflix}} \cap \overline{\text{Amazon}})\)? (i.e. the intersection of the complement of Netflix and Amazon)

a. 1  
b. 2  
c. 5  
d. 15

5. A car manufacturer builds trucks and cars both in red, blue, and green colors.

Let \(B\) represent the set of all red vehicles produced by the manufacturer and let \(C\) represent the set of all trucks produced by the manufacturer.

If all of the vehicles below are produced by the manufacturer, which could be in the set \((B \cap C')\)?

a.  
   ; Blue Car

b.  
   ; Red Car

c.  
   ; Green Truck

d.  
   ; Red Truck