1. Consider the following ER diagram:

Which of these cardinalities is possible?

<table>
<thead>
<tr>
<th>person</th>
<th>member</th>
<th>club</th>
<th>Is it possible?</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0</td>
<td>8</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
<td>8</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>11</td>
<td>3</td>
<td>4</td>
<td>Yes</td>
</tr>
<tr>
<td>11</td>
<td>9</td>
<td>4</td>
<td>Yes</td>
</tr>
</tbody>
</table>
2. Below is an Entity-Relationship diagram about car dealerships. It may or may not represent the domain well. Answer the questions below.

(a) A car sale cannot involve more than one salesperson.
   True [ ] False [ ]

(b) There can be two cars with the same VIN as long as the model and year are different.
   True [ ] False [ ]

(c) A salesperson can work at any number of dealerships.
   True [ ] False [ ]

(d) There can’t be more salespeople than dealerships.
   True [ ] False [ ]

(e) There can be multiple sales on the same date.
   True [ ] False [ ]

(f) Two salespeople can have the same sID as long as they work at different dealerships.
   True [ ] False [ ]

(g) This model contains a weak entity set.
   True [ ] False [ ]

(h) The works at relationship is a one-to-many relationship.
   True [ ] False [ ]