Part 1: Probability

- Let R0 be true if it rained yesterday or false if it did not rain yesterday.
- Let R1 be true if it rains today or false if it does not rain today.
- Let R2 be true if it rains tomorrow or false if it does not rain tomorrow.

Consider the following table of probabilities:

<table>
<thead>
<tr>
<th></th>
<th>R1=true</th>
<th>R1=false</th>
</tr>
</thead>
<tbody>
<tr>
<td>R0=true</td>
<td>0.06</td>
<td>0.14</td>
</tr>
<tr>
<td>R0=false</td>
<td>0.09</td>
<td>0.71</td>
</tr>
</tbody>
</table>

1. What is the probability that it rained yesterday:
   [ Your response: is incorrect. A valid answer is: 0.2 ] ❌

2. What is the probability that it rained either yesterday or today or both?
   [ Your response: is incorrect. A valid answer is: 0.29 ] ❌

3. What is the probability that it will rain today given that it rained yesterday?
   [ Your response: is incorrect. A valid answer is: 0.3 ] ❌

4. What is the probability that it rained yesterday given that it rained today?
   [ Your response: is incorrect. A valid answer is: 0.4 ] ❌

5. Assume that R0 and R1 are related as given in the table above, and that Pr(R2=true | R1=true) = 0.3 and Pr(R2=false | R1=false) = 0.9.
What is the probability that it will rain tomorrow given that it rained yesterday?

[ Your response: is incorrect. A valid answer is: 0.16 ]

8 checks left Check

Part 2: Enable Submit

Current time is: 5/15/2011, 4:12pm
Click Submit before: 4/19/2011, 2:36pm

Enter Done below

[ ]

and click Submit.

If this problem is submitted past the due time, this subproblem will be marked incorrect.

8 checks left Check

This is a multi-part problem, each part has its own Save and Check buttons but there is ONLY ONE Submit button for the WHOLE problem. Finish working on all the parts before you click on Submit.

Get Answers