6. [10 points] A local organic farm sells chicken eggs. Consider the following functions.

- \( G(k) \) is the number of eggs produced in a day when the farm has \( k \) healthy chickens.
- \( R(z) \) is the daily egg revenue (in dollars) the farm receives when it produces \( z \) eggs that day.

Throughout this problem, assume that the functions \( G \) and \( R \) are invertible.

For each of the sentences (a)-(e) below, fill in the blank with the one expression from the list of “possible answers” given below that makes the statement true.

*No work or explanation is necessary for this problem.*

**Possible Answers:**

<table>
<thead>
<tr>
<th></th>
<th>( R^{-1}(10) )</th>
<th>( G(G(10)) )</th>
<th>( G(R^{-1}(10)) )</th>
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</thead>
<tbody>
<tr>
<td>( G(10) )</td>
<td>( R(G(10)) )</td>
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<td>( R(G^{-1}(10)) )</td>
<td>( G^{-1}(R^{-1}(10)) )</td>
</tr>
</tbody>
</table>

**a.** [2 points]
If the farm produced 10 eggs today, then its daily egg revenue today was \( \boxed{R(10)} \) dollars.

**b.** [2 points]
If the farm produced 10 eggs today, then there were \( \boxed{G^{-1}(10)} \) healthy chickens.

**c.** [2 points]
Today the farm had 10 healthy chickens, so its daily egg revenue was \( \boxed{R(G(10))} \) dollars.

**d.** [2 points]
If the farm produced \( R^{-1}(10) \) eggs today, then its daily egg revenue was \( \boxed{10} \) dollars.

**e.** [2 points]
If the farm’s daily egg revenue today was $10, then there were \( \boxed{G^{-1}(R^{-1}(10))} \) healthy chickens.