Jumping Jacks

Task 1
Person A will be doing jumping jacks while Person B times them with a stopwatch. When both people are ready, Person B will say “go” and start the stopwatch and Person A will do 3 jumping jacks. Person B will continue watching the stopwatch and will say “go” EVERY 5 seconds. Every time Person B says “go”, Person A will do 3 jumping jacks. This will continue for 30 seconds. Record the time and total number of jumping jacks in the table below.

<table>
<thead>
<tr>
<th>Time (seconds)</th>
<th>0</th>
<th>5</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total # of Jumping Jacks</td>
<td>0</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Graph the points from the table above.
**Task 2**

In this task, Person B will be doing jumping jacks and Person A will time. Person B will begin by doing 10 jumping jacks BEFORE time begins. After Person B finishes the 10 jumping jacks, Person A will start the stopwatch and say “go”. Person B will do 3 more jumping jacks. Every 5 seconds, Person A will say “go”, but Person B will ONLY do jumping jacks every other time (so they do 3 on the 1st “go”, then rest for the next “go”, then do 3 on the next “go” and then rest on the next “go”, etc). Continue for 35 seconds.

<table>
<thead>
<tr>
<th>Time (seconds)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total # of Jumping Jacks</td>
<td>10</td>
<td>13</td>
<td>13</td>
<td>16</td>
</tr>
</tbody>
</table>

Graph the points from the table above.

**Analysis Questions**

1. What is similar about what you did in the two tasks?

   In both tasks,
   __________________________.

2. What is different about what you did in the two tasks?

   In task 1 I ________________, but in task 2, I ____________________.

3. What is similar about the tables?

   ______________________ is the same in both tables.

4. What is different about the tables?

   _______________________ is different in the tables.

5. What is the same about the graphs?

   Both graphs ________________.

6. What is different about the graphs?

   The graph of task 2 is different because ____________________