1. **TRUE** or **FALSE**: The correlation coefficient of $r = 0.65$ indicates a stronger linear association between $x$ and $y$ than would $r = -0.85$.

2. **TRUE** or **FALSE**: The correlation coefficient measures only the strength of the **linear** relationship between the variables $x$ and $y$.

3. Describe the relationships shown in the following plots. The first shows “duration of eruption” times on the x axis and “Waiting time to next eruption” on the y axis for the Old Faithful geyser. The second shows the relationship between aperture opening (f-stop) and shutter speed on an automatic exposure camera.

![Plot 1](image1.png)  
![Plot 2](image2.png)

A. Form:  
B. Form:  

Circle one in each group:

A. Direction: **Negative**, **Positive**, or **Neither**  
B. Direction: **Negative**, **Positive**, or **Neither**  

A. Strength: **Weak**, **Moderate**, or **Strong**  
B. Strength: **Weak**, **Moderate**, or **Strong**

4. Three different treatments were used on cocaine addicts to try to prevent relapse.

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Desipramine</th>
<th>Lithium</th>
<th>Placebo</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relapsed</td>
<td>10</td>
<td>18</td>
<td>20</td>
<td>48</td>
</tr>
<tr>
<td>Recovered</td>
<td>14</td>
<td>6</td>
<td>4</td>
<td>24</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
<td>24</td>
<td>24</td>
<td>72</td>
</tr>
</tbody>
</table>

(a) Overall, What is the frequency distribution of Outcome?

(b) Which treatment had the highest recovery rate? (Show the numbers you are comparing.)