Practice

A company tests light bulbs. The table shows the number of hours the light bulbs lasted. Complete one cumulative frequency table.

<table>
<thead>
<tr>
<th>Time (t hours)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ≤ t &lt; 55</td>
<td>12</td>
</tr>
<tr>
<td>55 ≤ t &lt; 60</td>
<td>21</td>
</tr>
<tr>
<td>60 ≤ t &lt; 65</td>
<td>36</td>
</tr>
<tr>
<td>65 ≤ t &lt; 70</td>
<td>23</td>
</tr>
<tr>
<td>70 ≤ t &lt; 75</td>
<td>8</td>
</tr>
</tbody>
</table>

Plot your results on a cumulative frequency graph.

b) Use your graph to find an estimate for the interquartile range.

- Median = 62
- LQ = 51
- IQR = 62 - 51 = 11
- HQ = 66
- IQR = 66 - 59.5 = 6.5