Check Your Understanding

Each triangle described in the table is similar to $\triangle ABC$, both shown below. For each triangle, use this fact and the additional information given to answer Parts a and b.

![Diagram of triangle ABC with sides 4.0, 11.6, and 12.8]

a. Identify the correspondence between its vertices and those of $\triangle ABC$.
b. Determine the remaining table entries.

<table>
<thead>
<tr>
<th>Triangle Angle Measures</th>
<th>Shortest Side Length</th>
<th>Longest Side Length</th>
<th>Third Side Length</th>
<th>Scale Factor from $\triangle ABC$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$m\angle A = 64^\circ$</td>
<td>$m\angle B = 18^\circ$</td>
<td>$m\angle C = 98^\circ$</td>
<td>$AC = 4.0$</td>
<td>$AB = 12.8$</td>
</tr>
<tr>
<td>$m\angle D =$</td>
<td>$m\angle E = 64^\circ$</td>
<td>$m\angle F = 18^\circ$</td>
<td></td>
<td>$BC = 11.6$</td>
</tr>
<tr>
<td>$m\angle G =$</td>
<td>$m\angle H =$</td>
<td>$m\angle I =$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$m\angle J =$</td>
<td>$m\angle K = 18^\circ$</td>
<td>$m\angle L = 98^\circ$</td>
<td>$JL = 14.0$</td>
<td></td>
</tr>
</tbody>
</table>