Find the percent compositions (rounded to the nearest tenth of a percent) of all of the elements in the following compounds:

1)  CrF$_3$

   Cr: \_\_\_\_\_\_
   F: \_\_\_\_\_\_

2)  Na$_3$PO$_4$

   Na: \_\_\_\_\_\_
   P: \_\_\_\_\_\_
   O: \_\_\_\_\_\_

3)  KCN

   K: \_\_\_\_\_\_
   C: \_\_\_\_\_\_
   N: \_\_\_\_\_\_

4)  PI$_3$

   P: \_\_\_\_\_\_
   I: \_\_\_\_\_\_
**Solutions**

*Hint: Find the molecular weight of the compound then divide the total mass of each element by it and multiply by 100.*

<table>
<thead>
<tr>
<th>1) CrF₃</th>
<th>Cr: 47.7%</th>
<th>F: 52.3%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2) Na₃PO₄</td>
<td>Na: 42.1%</td>
<td>P: 18.9%</td>
</tr>
<tr>
<td>3) KCN</td>
<td>K: 60.0%</td>
<td>C: 18.5%</td>
</tr>
<tr>
<td>4) PI₃</td>
<td>P: 7.5%</td>
<td>I: 92.5%</td>
</tr>
</tbody>
</table>