Draw Venn diagram based on the data provided and answer the questions that follow.

1) The launch of a new supermarket in downtown NY was publicized through direct mail, the internet, and television.
   - A total of 119 customers received direct mail;
   - 131 customers learnt about the launch through the internet;
   - 140 customers got to know about it through advertisements on television;
   - 25 customers were aware of the launch through direct mail and the internet but not television;
   - 19 of them came to know of it through direct mail and television but not internet;
   - 27 customers through the internet and television but not through direct mail; and
   - 16 customers heard about it from all three sources.

a) How many customers came to know about the launch of the supermarket only through advertisements on television?

b) Write down the number of customers who were aware of the inauguration only via direct mail.

c) How many customers knew about the opening of the supermarket only through the internet?

d) List down the number of customers who were aware of the launch of the supermarket either through direct mail or the internet.

e) Find the number of customers who came to know about the inauguration of the supermarket through the internet or the television.

f) How many customers were aware about the grand opening of the supermarket either through direct mail or the television?

g) After the use of all three modes of advertisement, how many customers in all were invited for the inauguration of the supermarket?

h) How many customers were aware of the opening of the supermarket through at least 2 of the three modes of advertisement used?
Draw Venn diagram based on the data provided and answer the questions that follow.

1) The launch of a new supermarket in downtown NY was publicized through direct mail, the internet, and television.
   - A total of 119 customers received direct mail;
   - 131 customers learnt about the launch through the internet;
   - 140 customers got to know about it through advertisements on television;
   - 25 customers were aware of the launch through direct mail and the internet but not television;
   - 19 of them came to know of it through direct mail and television but not internet;
   - 27 customers through the internet and television but not through direct mail; and
   - 16 customers heard about it from all three sources.

a) How many customers came to know about the launch of the supermarket only through advertisements on television?

b) Write down the number of customers who were aware of the inauguration only via direct mail.

c) How many customers knew about the opening of the supermarket only through the internet?

d) List down the number of customers who were aware of the launch of the supermarket either through direct mail or the internet.

e) Find the number of customers who came to know about the inauguration of the supermarket through the internet or the television.

f) How many customers were aware about the grand opening of the supermarket either through direct mail or the television?

g) After the use of all three modes of advertisement, how many customers in all were invited for the inauguration of the supermarket?

h) How many customers were aware of the opening of the supermarket through at least 2 of the three modes of advertisement used?

Answer Key:

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>78 customers</td>
</tr>
<tr>
<td>b)</td>
<td>59 customers</td>
</tr>
<tr>
<td>c)</td>
<td>63 customers</td>
</tr>
<tr>
<td>d)</td>
<td>209 customers</td>
</tr>
<tr>
<td>e)</td>
<td>228 customers</td>
</tr>
<tr>
<td>f)</td>
<td>224 customers</td>
</tr>
<tr>
<td>g)</td>
<td>287 customers</td>
</tr>
<tr>
<td>h)</td>
<td>87 customers</td>
</tr>
</tbody>
</table>