A survey of 100 people about their television-watching found the following data:

- 65 people watch “The Hills”
- 10 people watch “Lost”
- 40 people watch “Gossip Girl”
- 5 people watch “The Hills” and “Lost”
- 20 people watch “The Hills” and “Gossip Girl”
- 0 people watch “Gossip Girl” and “Lost”

Let \( H \) be the people who watch “The Hills,” \( G \) be the people who watch “Gossip Girl,” and \( L \) be the people who watch “Lost.”

1. Draw a Venn diagram to represent the data in the survey. (Hint: You can figure out what \( H \cap G \cap L \) is by looking at \( G \cap L \).)

2. In your Venn diagram, shade in the portion corresponding to \((G \cap L)^C\).

3. How many people in the survey did not watch any of the three shows?

4. Give a description in words of what is meant by \( L \cup (H^C) \).

5. Name two sets from the survey which are disjoint.