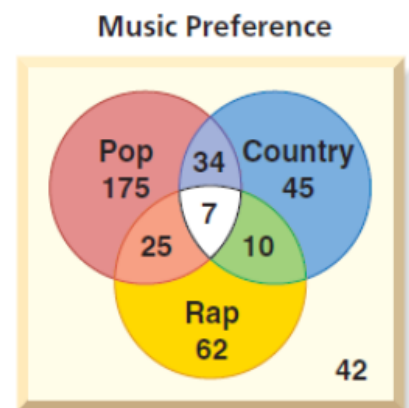1. A group of 400 teens were asked what type of music they listened to. They could choose among pop, rap, and country. The results are shown in the Venn diagram.

   Music Preference

   a) How many said that they listened to none of these types of music?

   b) How many said that they listened to all three types of music?

   c) How many said that they listened to only pop and rap music?

   d) How many said that they listened to pop, rap, or country music?

2. All members of Team A also belong to Team B, but only some members of Team B also belong to Team C. Teams A and C have no members in common.

   a) Draw a Venn diagram to illustrate the situation.

   b) Which statement(s) are true? Justify your reasoning.

   p: If a person is a member of Team C, then the person is not a member of Team A.

   q: If a person is not a member of Team B, then the person is not a member of Team A.

   r: No person that is a member of Team A can be a member of Team C.