



3. (3 pts) A collection of 5 rats, 10 mice, and 14 locusts will march in a single-file line to Bobby Dodd Stadium. How many possible lines are there, if the rats take the first five spots in the line and the mice walk together in a group?

4. (3 points) A woman has 10 friends, and she wishes to invite 5 of them over for a garden party. However, three of her friends are Aladena, Brad, and Christina, who hate other and will not attend unless the other two are not invited.

In how many ways can the woman have 5 friends over for a garden party?