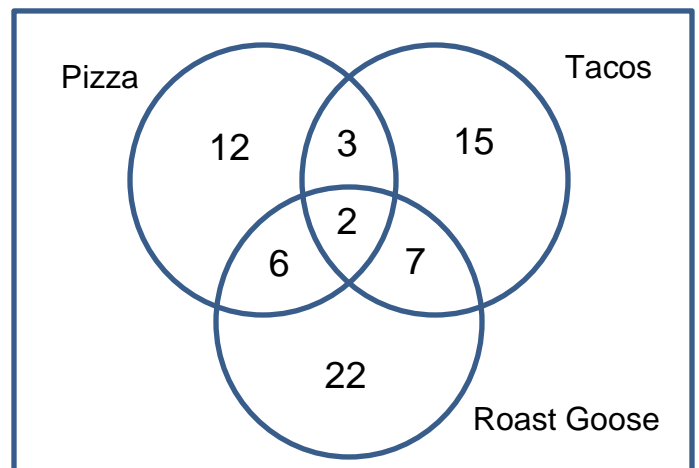Probability P4: Probability of This OR That

In drawing a card from a standard deck, what are the following probabilities?

1. P(king OR a spade)

2. P(ace OR a 3)

3. P(face card OR a black card)

4. P(a club OR a heart)

5. P(an odd numbered card OR a red card)

The Venn diagram represents peoples' choices for food at a party, find the following probabilities:

6. P(Pizza Only)

7. P(Roast Goose Only)

8. P(Tacos or Roast Goose but not Pizza)

9. P(Pizza or Tacos but not Roast Goose)

10. P(Pizza or Tacos or Roast Goose)

11. P(Likes all three choices)

12. P(Likes more than 1 choice)

You are picking a group of 4 people to work on a school project. In the class, there are 15 girls and 12 boys. What is the probability that your group has:

13. 2 girls in it

14. 3 boys in it

15. You have a basket with 5 red marbles, 6 green marbles 7 orange marbles and 10 blue marbles. If you select a marble at random what is the probability that it is either red or orange?