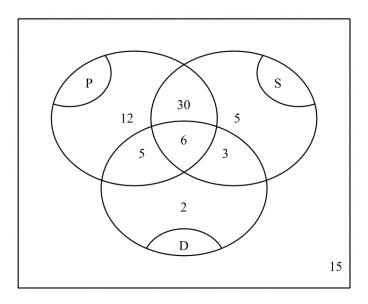
Probabilities with Venn Diagrams

The following Venn Diagram represents what customers ordered at a restaurant one night where D = dessert, S = salad, P = pasta



- 1. How many customers were at the restaurant?
- 2. What is the probability that a customer, selected at random, ordered pasta?
- 3. What is the probability that a customer, selected at random, ordered pasta and salad?
- 4. What is the probability that a customer, selected at random, ordered pasta or salad?
- 5. What is the probability that a customer, selected at random, ordered dessert and salad?
- 6. What is the probability that a customer, selected at random, ordered pasta and salad and dessert?
- 7. What is the probability that a customer, selected at random, ordered pasta or salad or dessert?
- 8. What is the probability that a customer, selected at random, did not order pasta or salad or dessert?
- 9. What is the probability that a customer, selected at random, did not order pasta and salad and dessert?

ANSWERS

1. 78

4. 61/78

7. 63/78 = 21/26

2. 53/78

5. 9/78 = 3/26 8. 15/78 = 5/26

3. 36/78 = 6/13 6. 6/78 = 1/13 9. 62/78 = 31/39