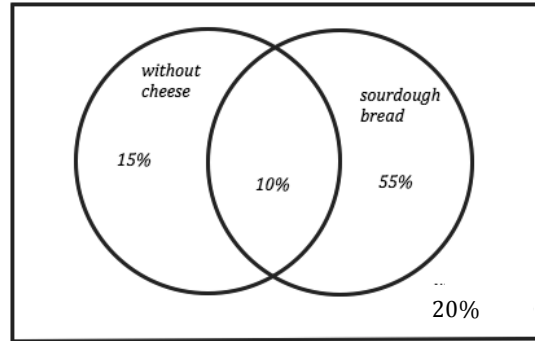


The Venn diagram to the right shows the data collected at a sandwich shop for the last six months with respect to the type of bread people ordered (sourdough or wheat) and whether or not they got cheese on their sandwich. Use this data to create a two-way frequency table and answer the questions.



8. Two-way frequency table

9. What is the probability that a randomly selected customer would order sourdough bread?
 $P(\text{sourdough bread}) =$
10. What is the probability that a randomly selected customer would order sourdough bread without cheese?
 $P(\text{sourdough} \cap \text{no cheese}) = P(\text{sourdough and no cheese}) =$
11. What is the probability that a person prefers wheat bread without cheese?
 $P(\text{wheat} \cap \text{no cheese}) = P(\text{wheat and no cheese}) =$
12. What is the estimated probability that a randomly selected customer would want their sandwich with cheese?
 $P(\text{sourdough cheese and wheat cheese}) = P(\text{_____}) =$
13. If they serve 100 sandwiches at lunch on a particular day, how many orders with sourdough should be prepared without cheese?
14. What is the probability that a randomly selected person would choose sourdough or without cheese?
 $P(\text{sourdough} \cup \text{no cheese}) = P(\text{sourdough or no cheese}) =$
15. What is the probability that a randomly selected person would NOT choose sourdough or no cheese?

