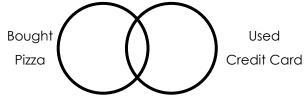
used a credit card. Half of the people who bought pizza used a credit card. What is the probability that a customer bought pizza or used a credit card?



A group of 60 students were asked if they played field hockey (F), basketball (B) or soccer (S). The diagram below displays the results. Use the information given to find the following probabilities.

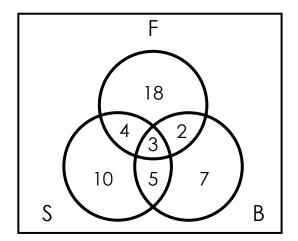
11. *P*(*B* ∩ *S*)

12. *P*(*F* ∪ *B*)

13. *P*(*F*)'

14. $P(F \cup B \cup S)$

15. *P*(*F* ∪ *B* ∪ *S*)'



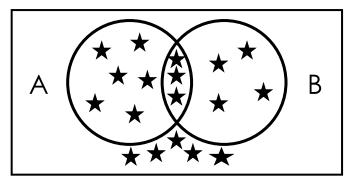
Given the Venn Diagram below with set A and set B determine the following:

____ 16. P(A∩B)

17. P(A∪B)

18. $P(\overline{A} \cup B)$

19. $P(A \cap \overline{B})$



20. Suppose 80% of people can swim. Suppose 70% of people can whistle. Suppose 55% of people can do both. What percentage of people can swim or whistle?

21. At Harrison, 60% of the students carry a backpack or a wallet. 40% carry only a backpack, and 30% carry only a wallet. If a student is selected at random, find the probability that the student carries both a backpack and a wallet.