

Two-Way Tables

1. Fill in the missing information in the table.

	Teens (16-19)	Adults (20+)	TOTAL
0 accidents		53	68
1 accident	4		
2+ accidents	9		21
TOTAL		97	125

2. $P(\text{driver is an adult}) =$

3. $P(\text{teen} \cap \text{zero accidents}) =$

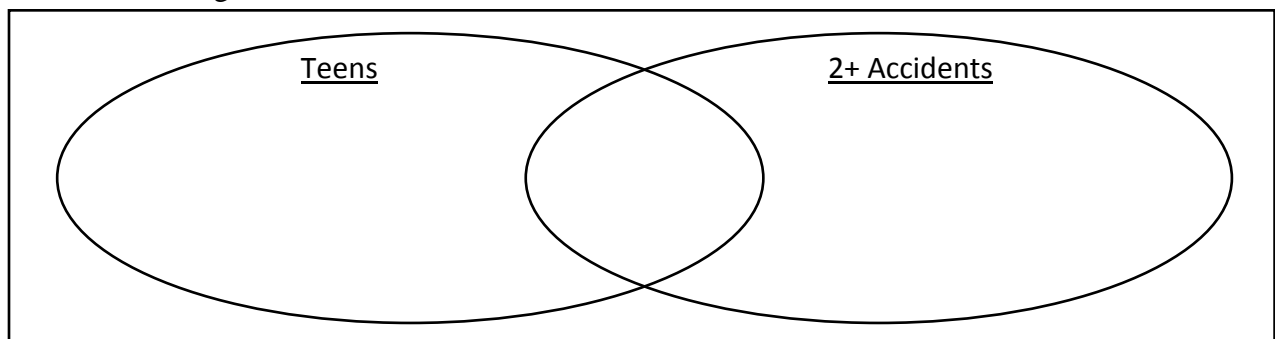
4. $P(\text{driver is a teen}) =$

5. $P(\text{adult} \cup \text{2+ accidents}) =$

6. $P(\text{teen} \cup \text{0 accidents}) =$

7. $P(\text{1 accident} \cap \text{adult}) =$

8. Make a Venn diagram of the information.



At Beaumont High School, sophomores and juniors are required to take a foreign language class. They offer French and Italian. There are 389 total sophomores and juniors. There are 104 sophomores taking Italian, 165 juniors taking French and 245 total students enrolled in a French class.

9. Complete the two-way table with the information.

	Juniors (J)	Sophomores (S)	TOTAL
Italian (I)			
French (F)			
TOTAL			

10. $P(J) =$

11. $P(F) =$

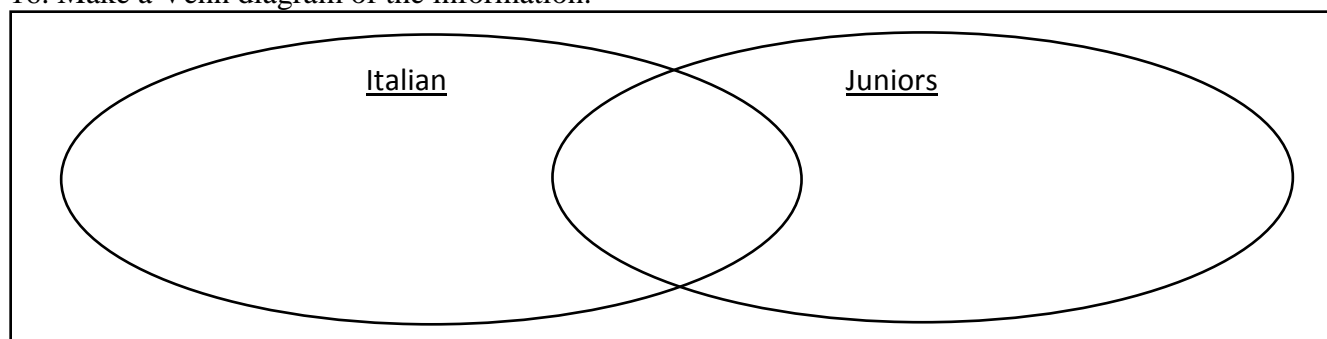
12. $P(J \cap I) =$

13. $P(S \cup F) =$

14. $P(S) =$

15. $P(I^c) =$

16. Make a Venn diagram of the information.



In a class of 50 students, 18 are taking chorus, 26 are taking band, and 2 take both chorus and band.

17. Create a two-way table for the information.

	Chorus	No Chorus	TOTAL
Band			
No Band			
TOTAL			

18. $P(\text{band}) =$

19. $P(\text{chorus} \cup \text{band}) =$

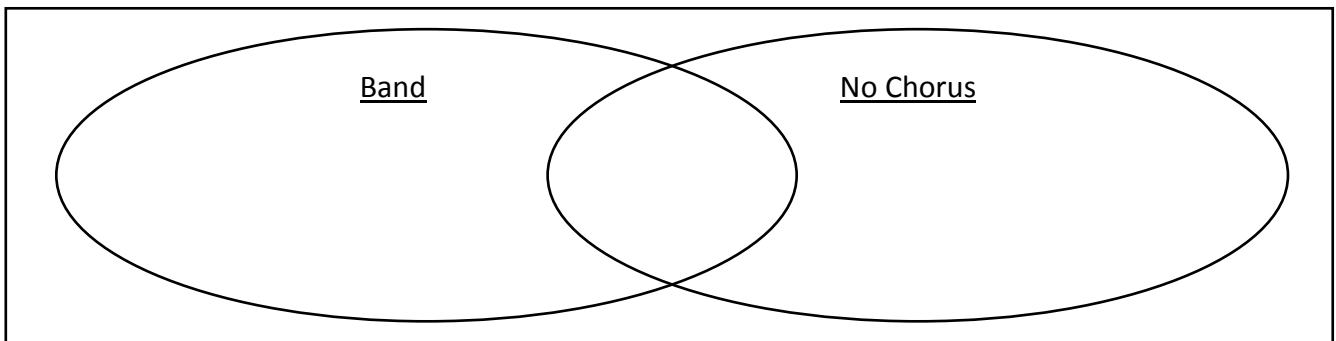
20. $P(\text{band} \cap \text{chorus}) =$

21. $P(\text{chorus}^c) =$

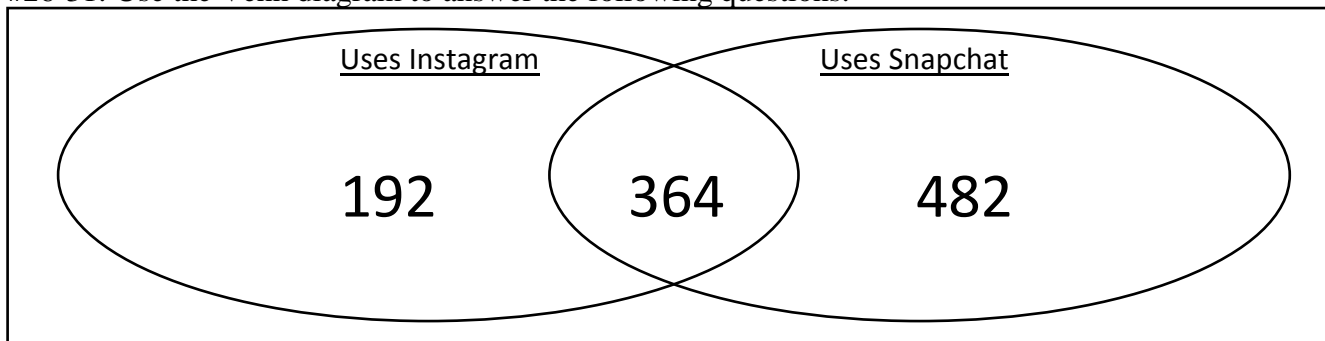
23. $P(\text{band} \cup \text{chorus})^c =$

24. $P(\text{no band} \cap \text{chorus}) =$

25. Make a Venn diagram of the information.



#26-31: Use the Venn diagram to answer the following questions.



26. Fill in the two-way table for the data above:

	Uses Snapchat	Does not use Snapchat	TOTAL
Uses Instagram			
Does not use Instagram			
TOTAL			

27. $P(\text{uses Instagram}) =$

28. $P(\text{does not use Snapchat}) =$

29. $P(\text{does not use Instagram} \cup \text{does not use Snapchat}) =$

30. $P(\text{uses Instagram} \cup \text{does not use Snapchat}) =$

31. $P(\text{does not use Instagram} \cap \text{uses Snapchat}) =$