

Two-Way Tables

Remember on all probabilities, answers need to be in fractions and percentages (rounded to the nearest whole number).

#1-10: The following table shows flight arrival information for a particular airport.

	Late	On-Time	TOTAL
Domestic Flights	12	108	120
International Flights	6	54	60
TOTAL	18	162	180

1. $P(\text{domestic}) =$

2. $P(\text{domestic} \cup \text{late}) =$

3. $P(\text{on time} \cup \text{late}) =$

4. $P(\text{international} \cup \text{late}) =$

5. $P(\text{domestic} \cup \text{late})^c =$

6. $P(\text{on time}) =$

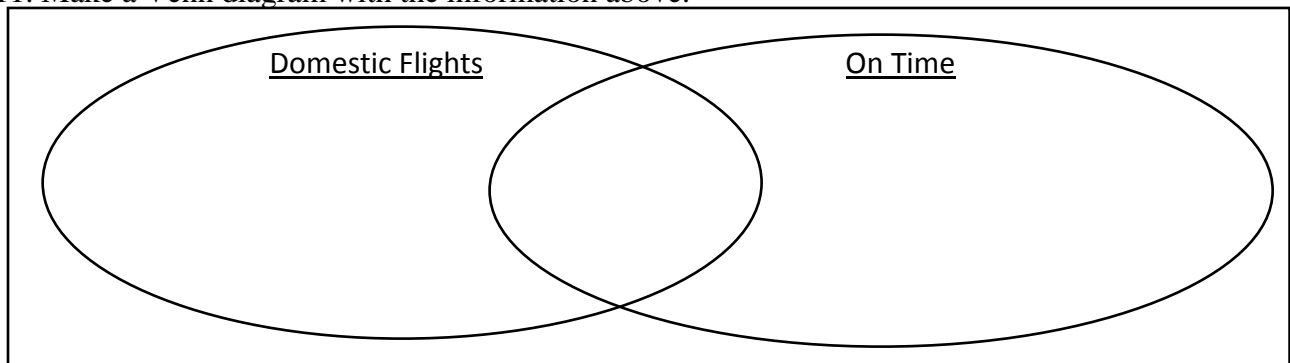
7. $P(\text{international} \cap \text{on time}) =$

8. $P(\text{domestic} \cap \text{late}^c) =$

9. $P(\text{late}^c) =$

10. $P(\text{international}) =$

11. Make a Venn diagram with the information above.



#12- : The following table shows the likes and dislikes of snowmobiles and skateboards.

	Likes Skateboards	Dislikes Skateboards	TOTAL
Likes Snowmobiles	80	25	105
Dislikes Snowmobiles	45	10	55
TOTAL	125	35	160

12. $P(\text{likes snowmobiles}) =$

13. $P(\text{likes skateboards})^c =$

14. $P(\text{likes snowmobiles} \cap \text{dislikes skateboards}) =$

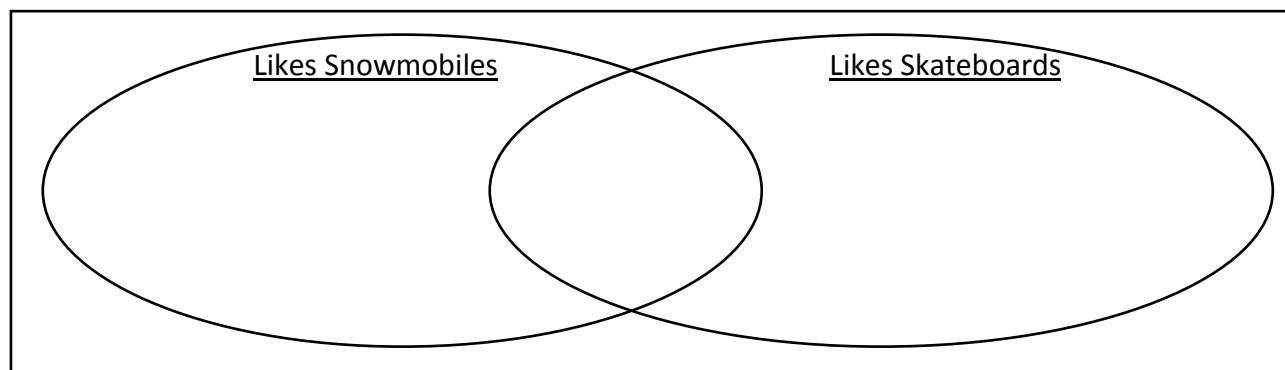
15. $P(\text{dislikes snowmobiles} \cup \text{dislikes skateboards}) =$

16. $P(\text{dislikes snowmobiles}) =$

17. $P(\text{likes skateboards}) =$

18. $P(\text{likes snowmobiles} \cup \text{likes skateboards})^c =$

19. Make a Venn diagram with the information above.



You have a standard 52-card deck. Answer the following questions.

20. How many face cards are in the deck?

21. a) How many suits are in the deck?

b) How many cards are in each suit?

c) What are the names of the suits?

22. How many of each number (or face card) are in the deck?
(example: there are ____ cards with 5's on them)

23. What is the probability that you do not draw a red king?

$$P(\text{red king})^c =$$

24. What is the probability of drawing a heart?

$$P(\text{heart}) =$$

25. What is the probability of drawing a card that is an odd number?

$$P(\text{odd number}) =$$

26. What is the probability of drawing a diamond or a jack?

$$P(\text{diamond} \cup \text{jack}) =$$

27. What is the probability of drawing a card that is a red and a queen?

$$P(\text{red} \cap \text{queen}) =$$

28. What is the probability of drawing a 5 or a club?

$$P(5 \cup \text{club}) =$$