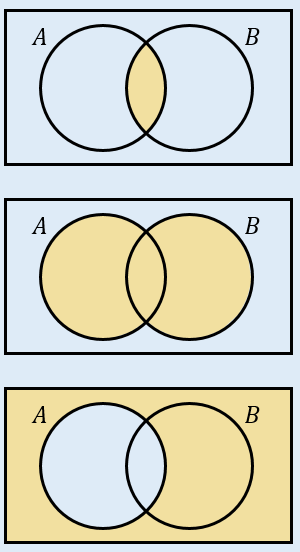
**2A Set Notation**



1. A card is selected at random from a standard pack of playing cards. Let A be the event that the card is an Ace, and D be the event that the card is a diamond.
2. Draw a Venn diagram to represent this information.

Find:

1. Given that , and .
2. Explain why events and are not independent
3. Given also that , events and C are mutually exclusive, and events B and C are independent, draw a Venn diagram to represent the situation
4. Find