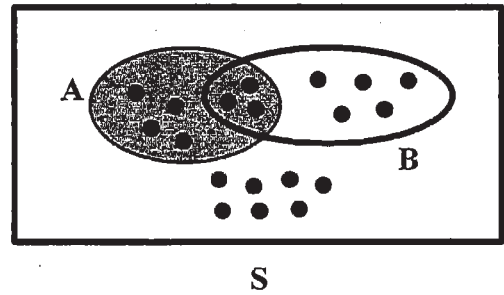


### Problems For You To Do (Section 4.3)

1. If **one** of the 19 equally likely outcomes in the sample space  $S$  is randomly selected, find the probability that

- A occurs.
- A does not occur.
- both A and B occur.
- A but not B occurs.
- B but not A occurs.
- neither A nor B occurs.
- A or B occur.
- at least one of A or B occurs.
- at most one of A or B occurs.



2. If one card is dealt from a deck of 52, what is the probability that it is

- a red card?
- a red card and a king?
- a red card or a king?
- a jack or a king?
- an ace or a diamond?

3. Thirty leg joint injuries were cross-classified according to the location of the injury and the treatment.

	Knee	Ankle	Hip	
Physio	4	5	2	11
Surgery	9	2	8	19
	13	7	10	30

If one injury is selected randomly from the 30 what is the probability that the injury was

- a knee injury treated by surgery?
- not an ankle injury?
- treated by physio but not a hip injury?
- a hip injury or an injury treated by physio?
- a knee or an ankle injury?

4. Wilma the web whiz submits bids on two web design projects. She thinks she has a 70% chance of getting the first project, but just a 50% chance of getting the second. She puts only a 25% chance on getting neither one of the two projects. Find the probability that she gets

- both projects.
- at least one of the two projects.
- only the first project.
- only one of the two projects.