1) We will use combination Formula

- 2) we have 3'0 and 2'1 so we have 5 bits then the conswer is 51:120
- 3) First bit = 1, second = 2, third = 2, Fourth = 2, FiFth = 1
  then the conswer is 1x2x2x2x1=8
- 4) From 30 members we will choose 3 so we will use combination \_ 30 C 3 = 30 4060
- 5) each book is distinct so we will choose 3 From 6.

  = (6,3) = 20
- 6) at least one of the three tries you roll a 7 = 5 x 5 x 5 6 x 5
- 7) we will choose 3 From 6 so ((6,3) = 20
  but there are 2 book shouldn't be choosen together = 4 C 3 = 4
  then it will be = 20 4 = 16
- 8) [(a) ((20, 9) = 167960)(B)  $[((2, 2)]^4 \times ((20, 4) = 4845)$