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Level: 200L
Course: PHE 201
Department: Nursing
1.) The blood groups of 200 people is distributed as follows: 50 have A blood type, 65 have B blood type, 70 have O blood type, 15 have AB blood type. If a person from this group is selected at random, what is the probability that this person has O blood type.
Solution:
200 people
50_ type A
65_ type B
70_ type O
15_ type AB
Probability that the person has O blood type=
Number of people with blood type O
Total number of people
70/200
7/20 or 0.35
2.) Two dices are roll. Find the probability that the sum is:
a.) Equal to 1
b.) Equal to 4
c.) Equal to 13
d.) Equal to 12

- e.) Equal to 7
- f.) Equal to 6
- g.) Equal to 8

Solution:

Table of value

	1	2	3	4	5	6
1	1,1	1,2	1,3	1,4	1,5	1,6
2	2,1	2,2	2,3	2,4	2,5	2,6
3	3,1	3,2	3,3	3,4	3,5	3,6
4	4,1	4,2	4,3	4,4	4,5	4,6
5	5,1	5,2	5,3	5,4	5,5	5,6
6	6,1	6,2	6,3	6,4	6,5	6,6

Possible outcome= 36

- a) probability (of sum equals 1)= 0
- b) probability (of sum equals 4)= 3/36, 1/12
- c) probability (of sum less than 13) = 36/36 = 1
- d) probability (of sum at most 12) = 36/36= 1
- e) probability (of sum at most 7) = 21/36= 7/12
- f) probability (of sum at least 6) = 26/36 = 13/18
- g) probability (of sum at least 8) = 15/36 = 5/12
- 3.) There are 30 students in a class. Among them, 8 students are learning both English and French, a total of 18 students are learning English. If every students are learning at least one language. How many students are learning french in total. Represent the information on a Venn diagram.

Solution:

$$n(F) = x$$

12 students are learning French.

