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Answer The Following

1) There are a total of 5 chocolates - 3 each in the flavors of lemons, coffee and grape. There are also 4 children. If each child is allowed to choose their own favorite flavor, what is the probability that all of them will get flavors of their choice?

2) Find the median of the following data

Marks	Number of Students
Less than 10	20
Less than 20	44
Less than 30	69
Less than 40	97
Less than 50	124

3) The letters of the word PROBABILITY are arranged in a random order. What is the probability that the letters P and L have exactly 4 letters between them.

4) If a prime number is less than 25, what is the probability that it is also less than 13.

5) A poll is taken among people working in Houston. The aim was to see what their annual salaries were.

Annual Salary	Number of people
Less than 40000	200
40001 to 75000	1100
75001 to 150000	1650
150001 to 250000	2816
More than 250000	4224

If you choose a person at random from this group, what is the probability that he or she earns more than 40000 annually?