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Equality	and Ine	qualities	Review-	Stat	150

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(a) Fill in the blank space with words that relate to the symbol on the left side of the sentence.

A = B means A is ______B.

A < B means A is ______B.

A > B means A is ______ B.

 $A \le B$ means A is ______B.

 $A \ge B$ means A is ______B.

(b) Think of and look up words that can be used to represent each symbol.

Words that imply " < "	Words that imply " > "
Words that imply " ≤ "	Words that imply "≥"

(c) We are doing this activity to help us prepare for binomial probability distributions. These questions will use x as our random variable so we will use x to write the correct probability notation.

Example: If 15 people were surveyed, what is the probability that **at most 12** people said they loved sushi?

This problem can be rewritten as $P(x \le 12)$.

The numbers that are contained in this example are:

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

(d) Rewrite the following using the example above as a guide, writing out the probability using inequality notation, and also shading the numbers that are included in the inequality.

1) If 15 people were surveyed, what is the probability that **at least 13** people would want to change phone plans?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	١.																
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

2) If 15 dogs were surveyed, what is the probability that no more than 9 would be wearing collars?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3) If 1:	3) If 15 teachers were surveyed, what is the probability that fewer than 7 of them drink coffee?														
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4) If 15 patients were surveyed, what is the probability that no less than 10 of them had hepatitis?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
						-	_	<u>, </u>	nore pe	-	_	_	_		
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6) If 15 police officers were surveyed, what is the probability that more than 3 of them prefer motorcyles?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7) If 15 people were surveyed, what is the probability that exactly 4 of them are left-handed?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8) If 15 students were surveyed, what is the probability that none of them could find a parking spot?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9) If 15 babies were surveyed, what is the probability that at least 6 of them had spoken their first word?															
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10) If 1	15 resta	nurants	were s	urveye	d, wha	t is the	probab	oility th	at at m	ost 5 o	f them	were u	ip to co	ode?	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15