CECTIFICATION ALL BRANCHES

GENERAL APTITUDE

Quantitative Aptitude





Lecture No: 05

By-Amulya Ratan Sir







More on Mixtures Alligations



Concept of Counting Theory



With & Without repetition ways



Questionnaire on the Topic



More Questions:



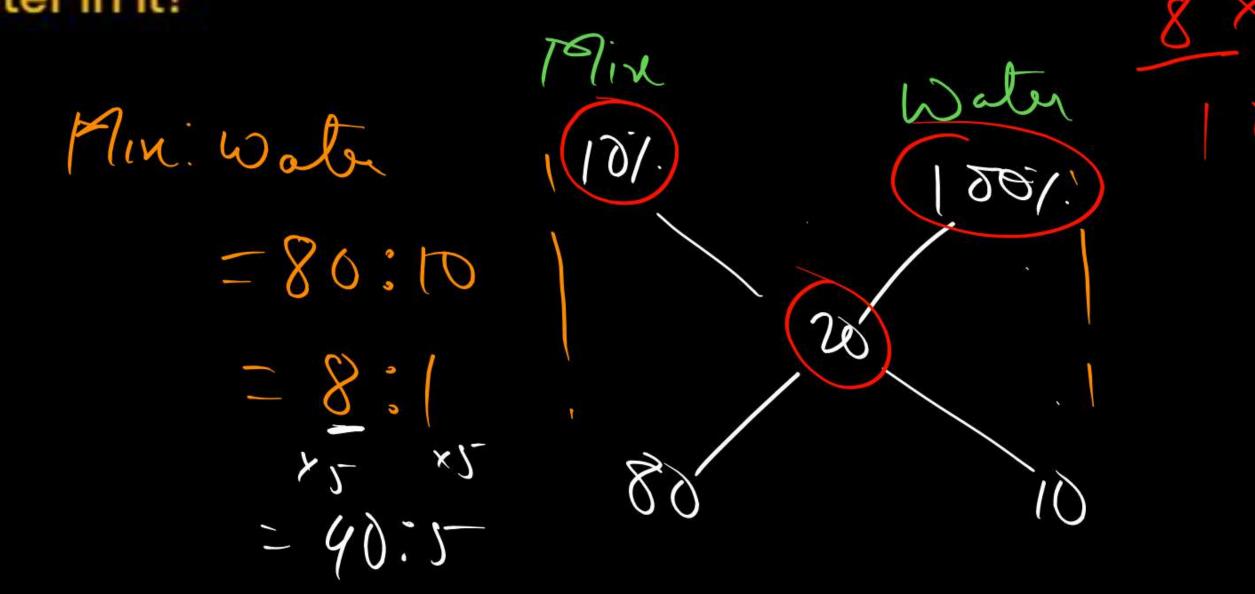


A 40 litres of mixture contains 10% water in it and remaining milk. How many litres of water are to be added to the mixture, so that it would become 20% water in it?

40 lit My



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In a mixture of 40 litres, the ratio of milk and water is 4(1.) How much water much be added to this mixture so that the ratio of milk and water becomes 2(3?)





20 litres



Tin Water



32 litres







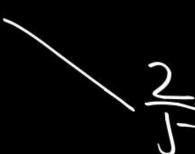
40 litres

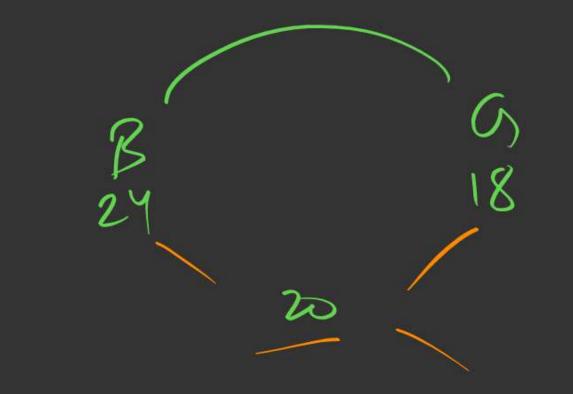






30 litres





24B+18G=20B+20G

Q. An alloy A consist of iron & copper in the ratio 5:7 whereas alloy B consist iron & copper in the ratio 3:1 In what ratio these two alloys are to be mixed to form a new alloy with iron & copper in the ratio 2:1?



5:13



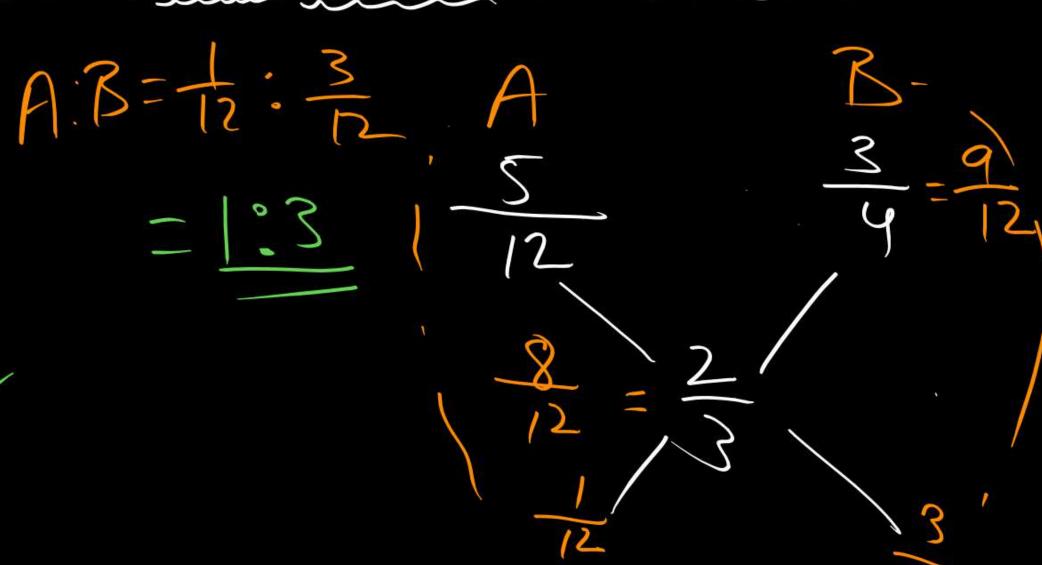
3:1

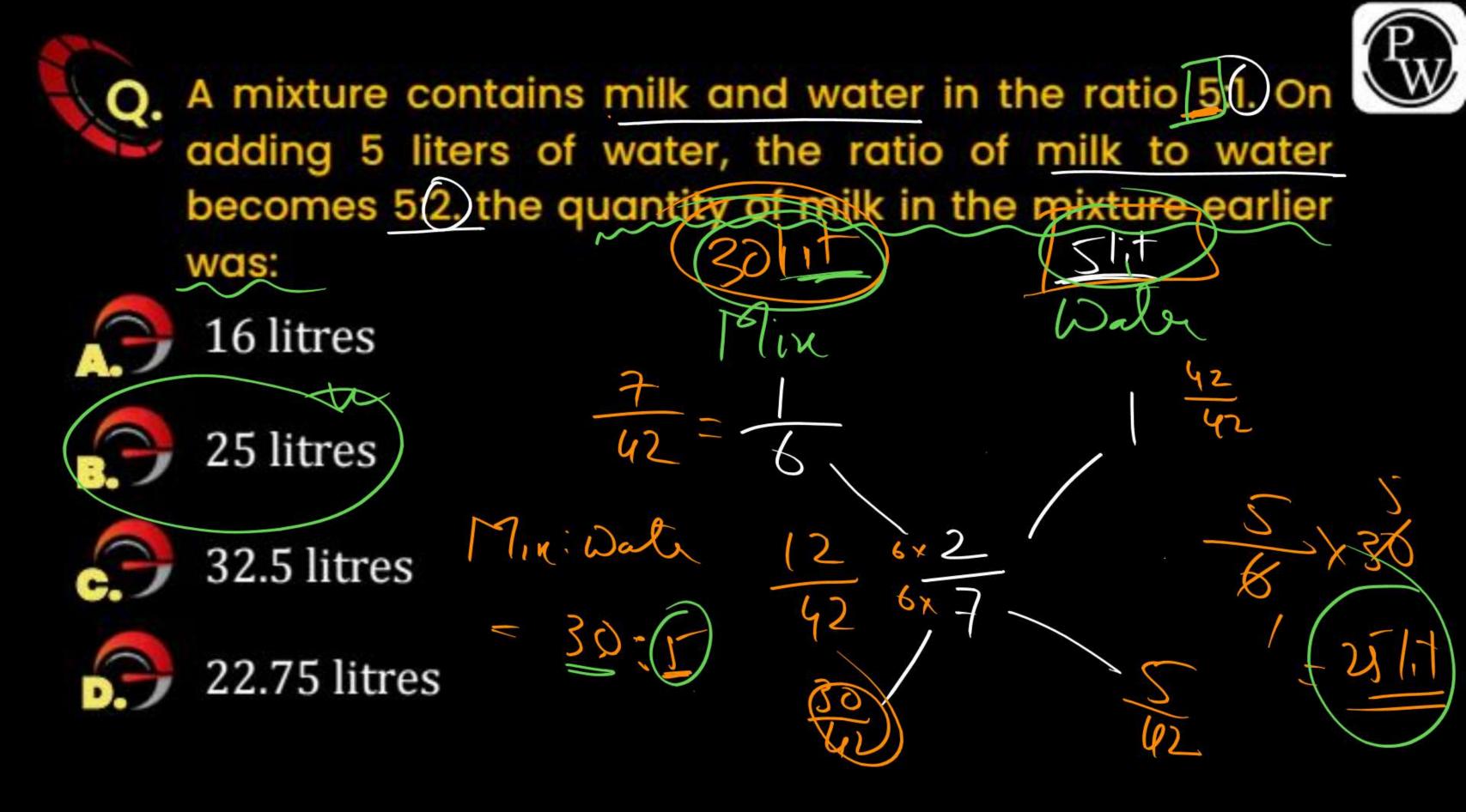


7:5



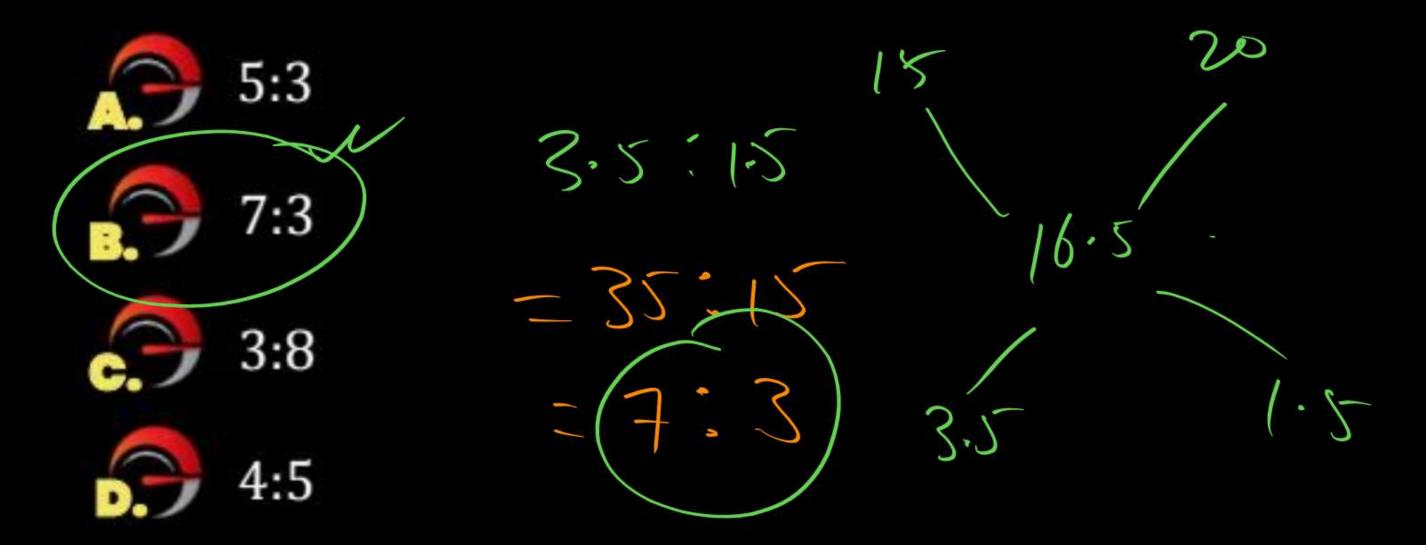
1:3

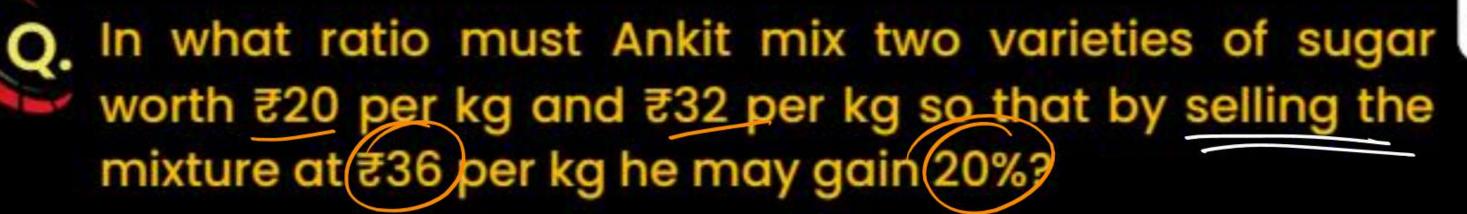






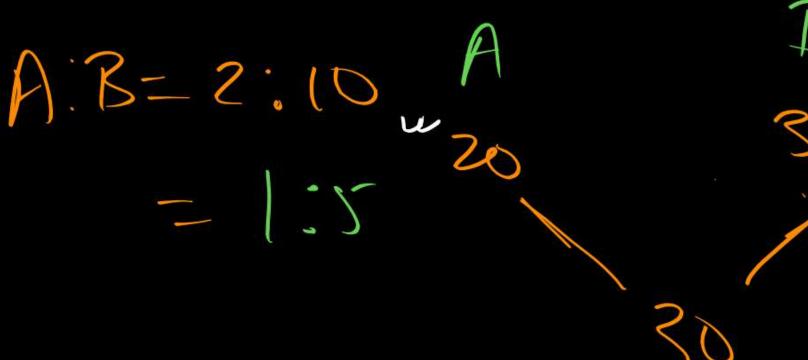
In what ratio must a grocer mix two varieties of pulses costing ₹15 and ₹20 per kg respectively so as to get a mixture worth ₹16.50 per kg?

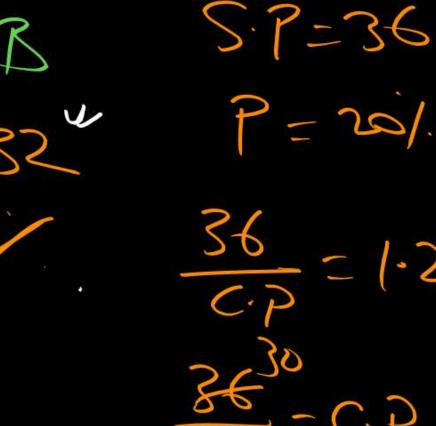














A man buys milk at ₹5 per litre and after adding water, sells it at ₹6 per litre, thereby making a profit of $33\frac{1}{3}\%$. What is the proportion of milk to water in the mixture?





1:9



9:10





9:1



4:5



A man purchases two mobiles for ₹65390, sells both of them so as to gain 13½ % on one and lose 2¾ % on other. If on the whole he gains 7¼ %, then what would be the cost of cheaper mobile?



₹32000



₹25150











Counting)
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Comparision (211) OR (t) (3412) AND (X)



Counting Theory



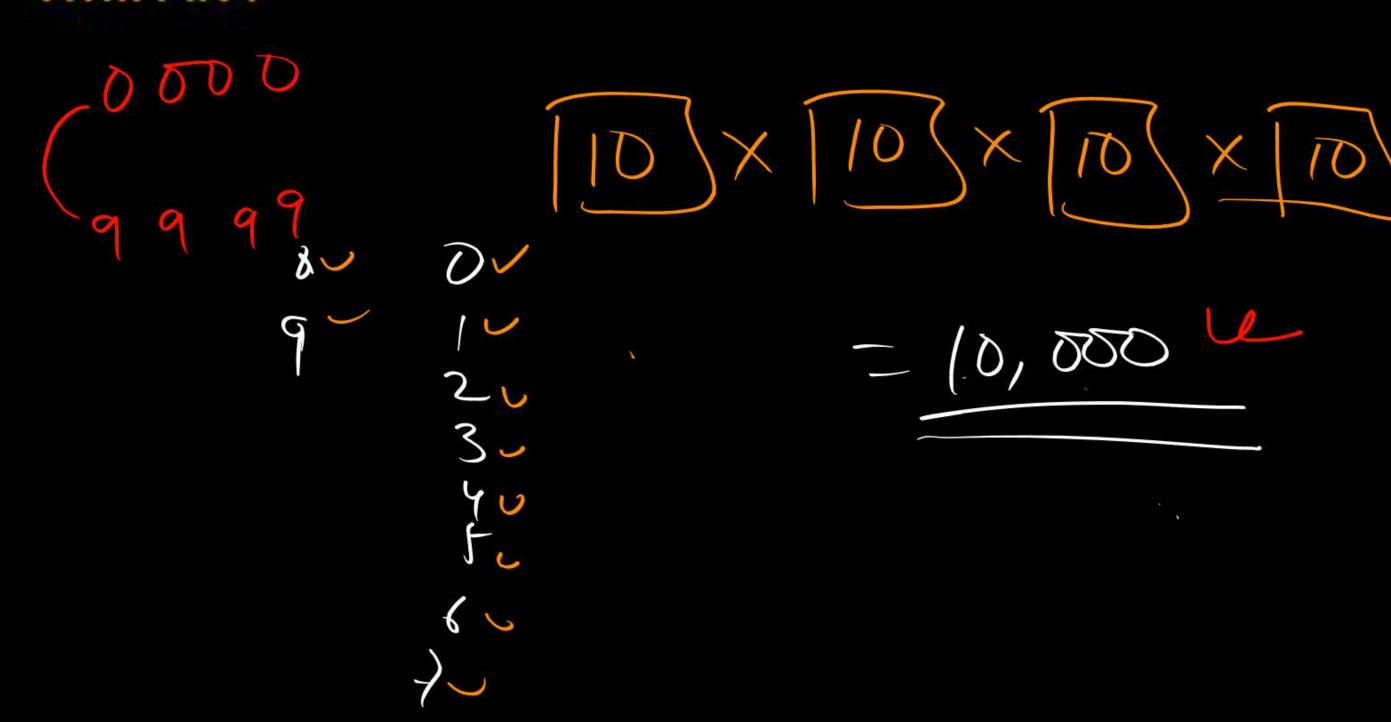




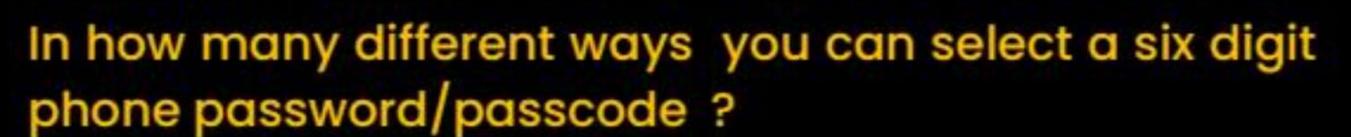


In how many different ways you can choose your ATM PIN?

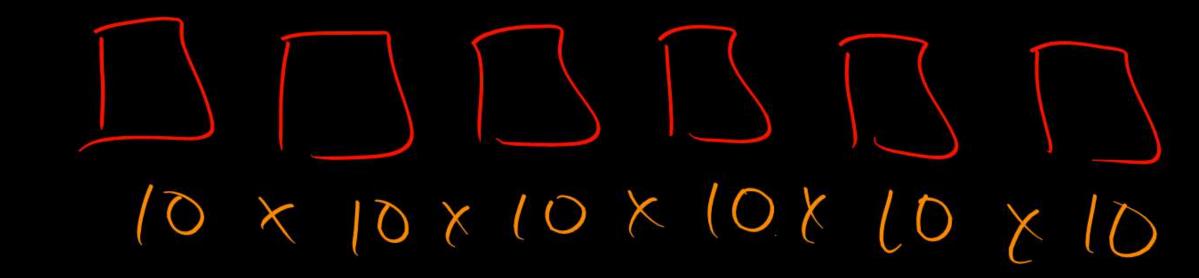




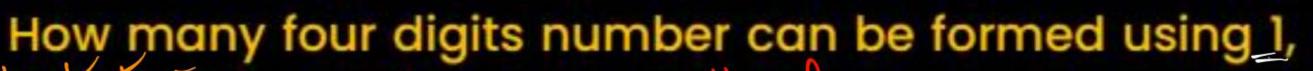














2, 3, 4 & 5?

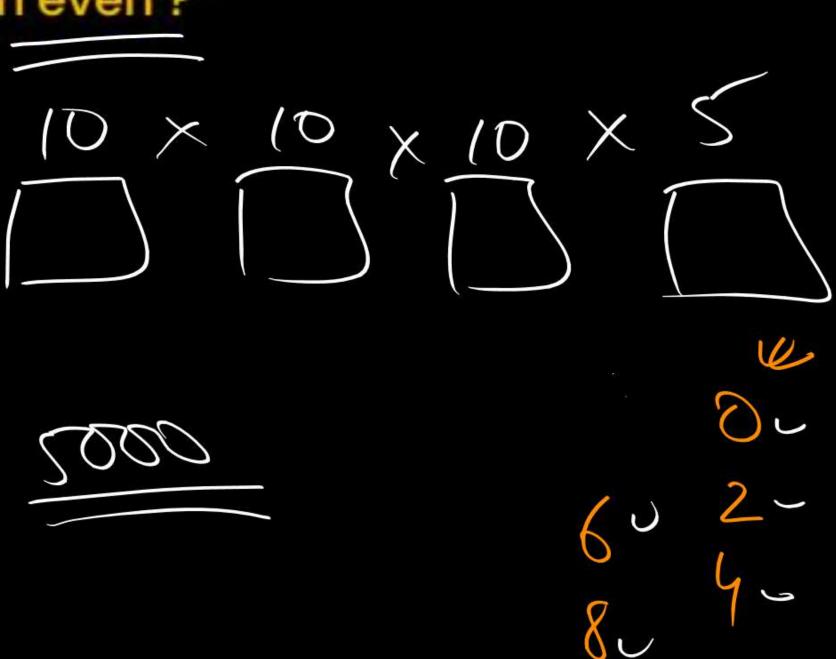
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In how many different ways you can choose your ATM PIN which is an even?

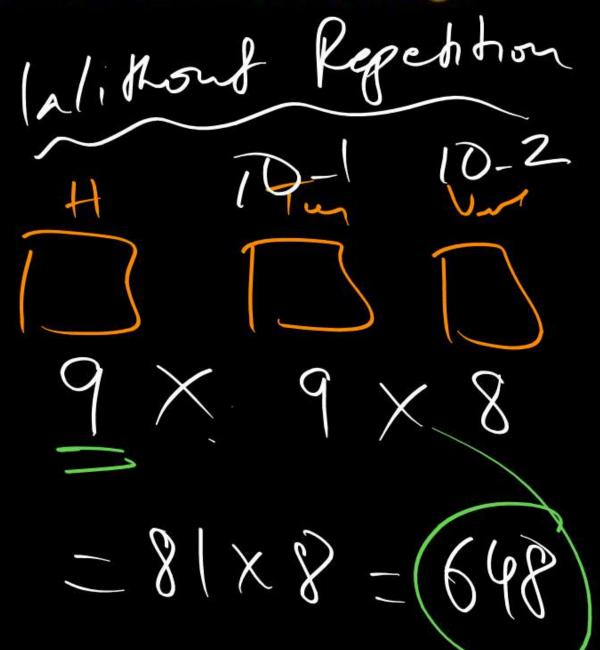






How many three digits number can be formed using

digits 0 to 9?





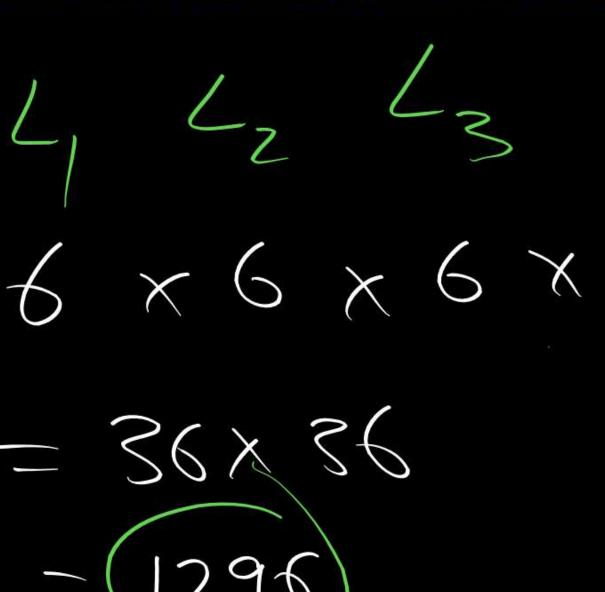
In how many ways four letters can be posted in 6 post boxes, if each box can take any number letters?















Q. In how many ways can you arrange 5 Novels on a





720

shelf?

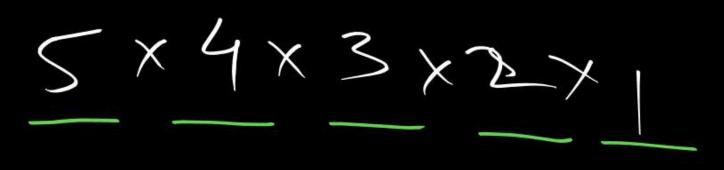


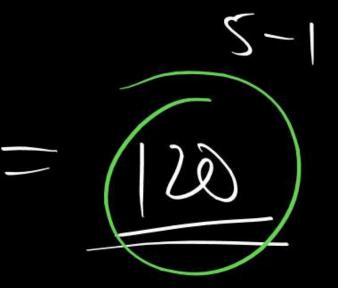


360

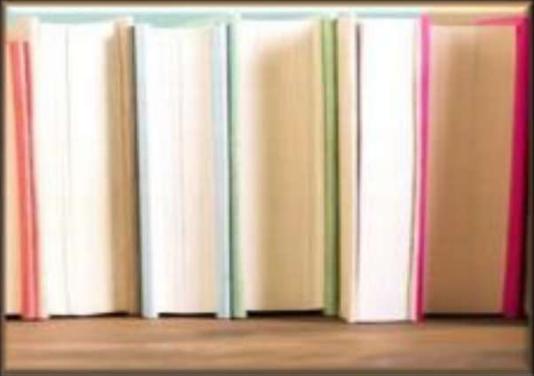


300





5-1 5-2 5-3 5-4





Four persons A, B, C and D are to be seated in a row. C should not be seated at the second position from the left end of the row. The number of distinct seating

arrangements possible is?

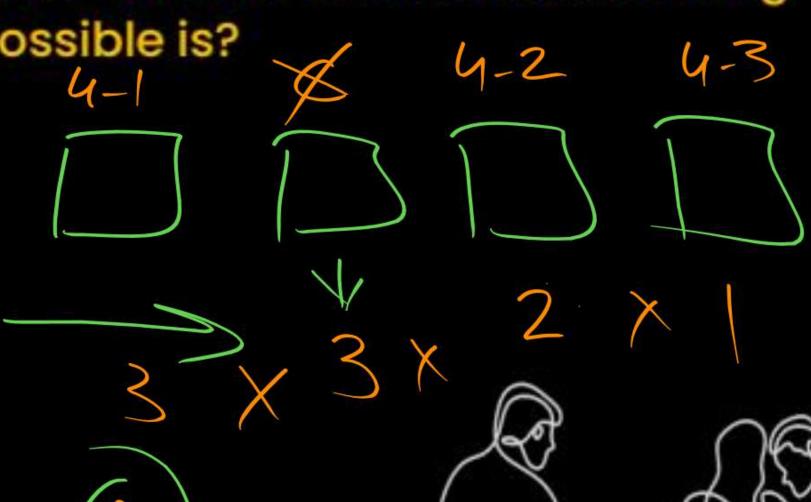














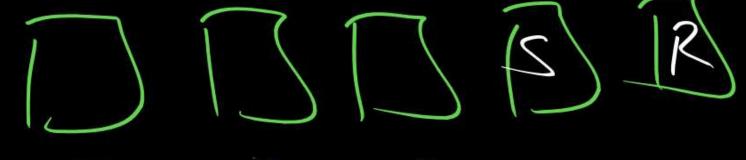


Q. Five different book (P, Q, R)S T) are to be arranged on a shelf. The books R and S are to be arranged first and second, respectively from the right side of the shelf. The number of different orders in which P, Q and T may be arranged is?













A library has two books each having three copies and three other books each having two copies. In how many ways can all these books be arranged in a shelf so that the copies of the same book are not separated?











Q. A license plate begins with 3 letters. If the possible letters are A, B, C, D and E, how many different ways these letters can be written if no letter is used more than once?



