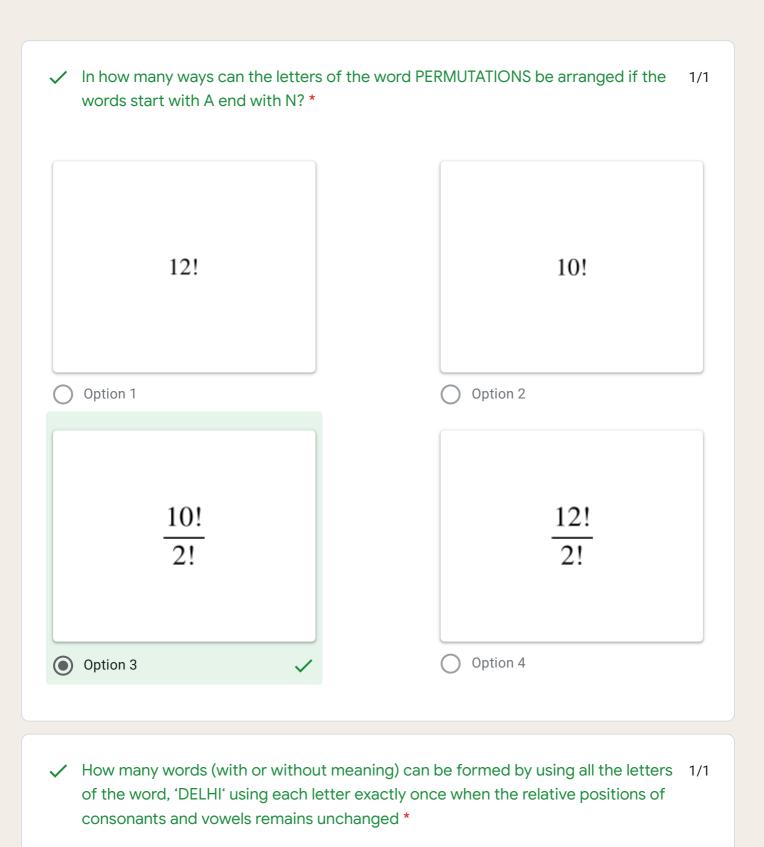


## **#04 SA Permutations**

## SCROLL DOWN :)





<ul> <li>Find the number of ways in which the letters of the word 'MACHINE' can be 1/ arranged such that the vowels may occupy only odd positions. *</li> </ul>	I
O 5040	
0 144	
<ul> <li>576</li> </ul>	
O 4464	
In how many ways can 5 children be arranged in a line such that two of them, Kajal 1/ and Sanmay, are always together? *	
O 2! x 3!	
○ 5! x 2!	
○ 3! x 4!	
<ul> <li>1680 six digit telephone numbers can be constructed with the digits 0, 1, 2, 3, 4, 5, 1/</li> <li>6, 7, 8, 9 if each number starts with 35 and no digit appears more than once. *</li> </ul>	I
True	
O False	

In simple language explain how you decided the answer for the above question \*

total number of paces are 6, now we have fixed first 2 digits. now 4 places are left and 8 numbers are left, so possible numbers are 8P4 i.e. 8!/4! = 8\*7\*6\*5 = 1680

