

Name: _____, I.D.: _____

Q1BaZi (*Counting Techniques*) Serial numbers for a product are to be made using 2 letters followed by 3 numbers. If the letters are to be taken from the first 8 letters of the alphabet with no repeats and the numbers are to be taken from the 10 digits (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) with no repeats, how many serial numbers are possible?

#	Possible Choice	Check(✓)
A	56720	
B	40320	
C	29030400	
D	30240	
E	20321280	
F	$2(8!) + 3(10!)$	
G	$(8!)^2 + (10!)^3$	
H	46080	
K	776	
L	467288576	
M	None of the Above Choices is correct at all.	

Q2Ba387Zi46. (*Committee Selection*). A 6 – person grievance committee is to be selected out of 2 departments, Physics, with 15 faculty members and Chemistry, with 20 faculty members. In how many ways can a committee of 6 persons be selected if 4 are from the Physics Department and 2 are from the Chemistry Department.

#	Possible Choice	Check(✓)
A	1623160	
B	768075	
C	259350	
D	508725	
E	406000	
F	24418800	
G	1436400	
H	1017450	
K	12209400	
L	1168675200	
M	None of the Above Choices is correct at all.	