Exemplar Problems Permutation and Combination

	the number of po is to be repeated.	sitive integers	s greater than 6000 a	and less	s than 7000 which are di	visible l	by 5, provided that
Solution	1:						
(i)Thous	and's Place can b	e fill with 6 ald	one.				
Hence, number of way =1							
6							
Unit plac	ce can be filled wit	h either 0 or 5	i.				
Hence, number of way =2							
6				0 or 5	0 or 5		
Hundred	d's place can be fil	led with the re	maining 8 digits.				
Hence, number of way =8							
6	9, 8, 7, 4, 3, 2, 1 (0 or 5)					0 or 5	
Ten's pla	ace can be filled w	vith 7 digits.					
Number of ways= 7.							
6	9, 8, 7, 4, 3, 2, 1 (0 or 5)			Remaining 7			0 or 5
Thus, re	quired number wil	l be					
=1 x 8 x	7 x 2						
=112							