

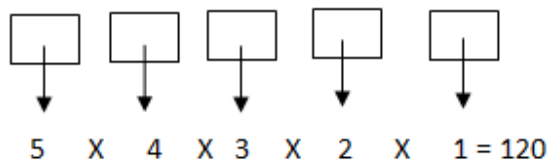


6. The number of integers greater than 6,000 that can be formed, using the digits 3, 5, 6, 7 and 8, without repetition, is:

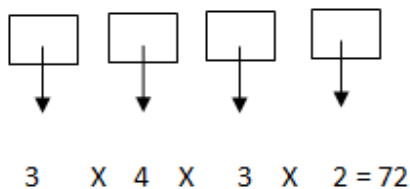
- (1) 216 (2) 192 (3) 120 (4) 72

Answer: Any number greater than 6000 can be formed with given 5 digits if number is either 5 digit or number is 4 digit except first number is not 3 and 5.

Number of ways 5 digit number can be formed:



Number of ways 4 digits number can be formed (First place can be formed by 3 number 6,7,8) once first number is reserved out of 5 we can fill 2nd place by 4 numbers and so on:



Therefore total number of ways = $120 + 72 = 192$

Correct option is (2) 192