

NCERT/CBSE MATHEMATICS CLASS 11 textbook

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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XI) textbook

7. PERMUTATIONS AND COMBINATIONS

5. How many 6-digit numbers can be formed from the digits 0, 1, 3, 5, 7 and 9

which are divisible by 10 and no digit is repeated ?

Solution : divisible by 10 \Rightarrow the number must have a 0 in the units place.

Now for the ten's place there are 5 choices of numerals , for the hundred's place there are 4 since no digit is repeated . In the same way for the next place there are 3 and for the next 2 , the next only one .

So the number can be formed in $1 \times 2 \times 3 \times 4 \times 5 \times 1$ way = 120 ways

Please do not copy the answer given here

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