1. The number of five-digit numbers that contain 7 exactly once is

2. A variable name in certain computer language must be either an alphabet or an alphabet followed by a decimal digit. The total number of different variable names that can exist in that language is equal to

3. Total number of words that can be formed using all letters of the word BRIJESH that neither begins with I nor ends with B is equal to

4. The total number not more than 20 digits that are formed by using the digits 0, 1, 2, 3, and 4 is

5. The number of words of four letters containing equal number of vowels and consonants, where repetition is allowed, is

6. The number of ways to fill each of the four cells of the table with a distinct natural number such that the sum of the numbers is 10 the sums of the numbers placed diagonally are equal is

7. The sum of the digits in the unit's place of all numbers formed with the help of 3, 4, 5, 6 taken all at a time is

8. How many numbers can be made with the digits 3, 4, 5, 6, 7, 8 lying between 3000 and 4000, which are divisible by 5 while repetition of any digit is not allowed in any number?

ANSWER KEY

Ques.	1.	2.	3.	4.
Ans.	$(41)(9^3)$	286	3720	5^{20}
Ques.	5.	6.	7.	8.
Ans.	150×21^2	8	108	12