

CLASS-VI(MATHS)

PLAYING WITH NUMBERS ( CHAPTER-4)

**General direction for the students:** whatever be the questions solved , everything must be copied in the maths copy and then do the Home work in the same copy.

Q.1. In  $3791*5$  , replace \* by a digit so that the number formed is divisible by 9.

Ans:- For a number to be divisible by 9 , sum of its digits should be divisible by 9.

So the sum of the digits is  $5+1+9+7+3=25$ . If we add 2 , it becomes 27, which is divisible by 9.

Thus the number is 379125.

Q.2. In  $5*9397$  replace the \* by a digit so that the number formed is divisible by 11.

ANS:- In  $5*9397$  , \* occurs at an odd place.

Sum of the digits at odd places (except \*) =  $7+3= 10$ .

Sum of the digits at the even places=  $9+9+5=23$ .

Their difference= $23-10=13$ . So if \* is replaced by 2 the sum of the digits at the odd places is 12.

Thus the difference is  $23-12=11$ , which is divisible by 11.so the number is 529397.

Q.3. If a number is divisible by another number then it is divisible by each of the factors of that numbers.

Q.4. If a number is divisible by two co-prime numbers then it is divisible by their product.

Q.5. If two given numbers are divisible by a number then their sum is also divisible by that number.

Q.6. If two given numbers are divisible by a number then their difference is also divisible by that number.

HOME WORK:- EXERCISE (4.2) QUESTION NUMBER (9) , (10) ,(11), (12) .