Exercise 9(B)

1. Fill in the blanks :

i) On dividing 9 by 7, quotient = 1 and remainder = 2

ii) On dividing 18 by 6, quotient = 3 and remainder = 0

iii) Factor of a number is exact divison of itself.

iv) Every number is a factor of itself.

v) Every number is a multiple of itself.

vi) 1 is a factor of every number.

vii) For every number, its factor are finite and its multiples are infinite.

viii) x is a factor of y then y is a multiple of x.

2. Write all the factors of:

(i) 16

ans- 1, 2, 4, 8, 16

(ii) 21

ans- 1, 3, 7, 21

iii) 39

ans- 1, 3, 13, 39

iv) 48

Ans- 1, 2, 4, 6, 8, 12, 24, 48

v) 64

ans- 1, 2, 4, 8, 16, 32, 64

vi) 98
ans- 1, 2, 7, 14, 49 and 98

3. write the first six multiples of :
i) 4
ans- 8, 12, 16, 20, 24, 28

ii) 9
ans- 18, 27, 36, 45, 54, 63

iii) 11
ans- 11, 22, 33, 44, 55, 66, 77

iv) 15
ans- 30, 45, 60, 75, 90, 105,

v) 18
ans- 36, 54, 72, 90, 108, 116

vi) 16
ans- 32, 48, 64, 80, 96, 112

4. The product of two numbers is 36 and their sum is 13, find the numbers.

Ans- Since, $36 = \underset{(1+36=37)}{1\times 36}, \underset{(2+18=20)}{2\times 18}, \underset{(3+12=15)}{3\times 12}, \underset{(4+9=13)}{4\times 9}, \underset{(6+6=12)}{6\times 6}$

Therefore the numbers are 4 and 9.

5. The product of two numbers is 48 and their sum is 16 find the numbers.

ans- $48 = 1 \times 48, \quad 2 \times 24, \quad 4 \times 12, \quad 6 * 8$

$(1+48=49), (2+24=26), (4+12=16), (6+8=14)$

Therefore the numbers are 4 and 12.