

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* of *the no.*
- (iv) Every number is a factor of *itself*
- (v) Every number is a multiple of *itself*
- (vi) *1* is factor of every number.
- (vii) For every number, its factors are *finite* and its multiples are *infinite*
- (viii) x is a factor of y , then y is a *multiple* of x .

Write all the factors of :

2) i) 16

Ans) 1×16

2×8

4×4

Factors = 1, 2, 3, 4, 8, 16

ii) 21

Ans) 1×21

3×7

Factors = 1, 3, 7, 21

3) i) 4

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

ii) 9

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

ii) 19

iii) 11

- Ans) $11 \times 1 = 11$
 $11 \times 2 = 22$
 $11 \times 3 = 33$
 $11 \times 4 = 44$
 $11 \times 5 = 55$
 $11 \times 6 = 66$

iv) 15

- $15 \times 1 = 15$
 $15 \times 2 = 30$
 $15 \times 3 = 45$
 $15 \times 4 = 60$
 $15 \times 5 = 75$
 $15 \times 6 = 90$

v) 18

- Ans) $18 \times 1 = 18$
 $18 \times 2 = 36$
 $18 \times 3 = 54$
 $18 \times 4 = 72$
 $18 \times 5 = 90$
 $18 \times 6 = 108$

vi) 16

- $16 \times 1 = 16$
 $16 \times 2 = 32$
 $16 \times 3 = 48$
 $16 \times 4 = 64$
 $16 \times 5 = 80$
 $16 \times 6 = 96$

2) iv) 48

- ~~$48 \times 1 = 48$~~
 2×24
 3×16
 4×12
 6×8

Factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

2) v) 64

Ans) 1×64
 2×32
 4×16
 8×8

Factors of $64 = 1, 2, 4, 8, 16, 32, 64$

5) The product of two nos. 48
sum = 16

$$48 = 1 \times 48$$

$$2 \times 24$$

$$3 \times 16$$

$$4 \times 12$$

$$6 \times 8$$

$$4 \times 12 = 48$$

$$4 + 12 = 16$$

the numbers are 4 12

C.6
P.16

Exc-9(B)

Factors and multiple

12) Write all factors of:

iii) 39

Ans) 1×39
 3×13

Factors of 39 = 1, 3, 13, 39

vi) 98

Ans) ~~1×98~~
 ~~2×49~~
 ~~7×14~~

Factors = 1, 2, 7, 14, 49, 98

~~3) vi) 16~~

~~Ans) 1×16
 2×8
 4×4
 8×2~~

~~Factors = 1, 2, 8, 16, 4, 8, 2~~

4) The product of two nos is 36 and their sum is 13. Find the numbers.

Ans)

$$\begin{aligned} 36 &= 4 \times 9 \\ &= 2 \times 18 \\ &= 12 \times 3 \\ &= 6 \times 6 \end{aligned}$$

Product : 36

Sum : 13

So the nos are : 9 & 4