

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 divisor of the number.
- iv) Every number is a factor of number 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 .

HW 2. Write all the factors of:

a) 16

Ans \rightarrow 16

$$= 1 \times 16$$

$$= 2 \times 8$$

$$= 4 \times 4$$

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

b) ~~12~~ 21

Ans \rightarrow 21

$$= 1 \times 21$$

$$= 3 \times 7$$

Factors of 21 = 1, 3, 7, 21

c) 39

Ans \rightarrow 39

$$= 1 \times 39$$

$$= 3 \times 13$$

Factors of 39 = 1, 3, 13, 39

d) 48

Ans \rightarrow 48

$$= 1 \times 48$$

$$= 2 \times 24$$

$$= 3 \times 16$$

$$= 4 \times 12$$

$$= 6 \times 8$$

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

e) 64

Ans \rightarrow 64

$$= 1 \times 64$$

$$= 2 \times 32$$

$$= 4 \times 16$$

$$= 8 \times 8$$

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

f) 98

Ans) 98

$$= 1 \times 98$$

$$= 2 \times 49$$

$$= 7 \times 14$$

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

3) Write the first six multiples of :

i) 4

Ans) 4

First six multiples of 4 = 4, 8, 12, 16, 20

ii) 9

Ans) Multiples of 9 = $1 \times 9, 2 \times 9, 3 \times 9, 4 \times 9, 5 \times 9, 6 \times 9$ -
= 9, 18, 27, 36, 45, 54

iii) 11

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

iv) 15

Ans) Multiples of 15 = $1 \times 15, 2 \times 15, 3 \times 15, 4 \times 15, 5 \times 15, 6 \times 15$
= 15, 30, 45, 60, 75, 90

v) 18

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

vi) 16

Ans) Multiples of 16 = $1 \times 16, 2 \times 16, 3 \times 16, 4 \times 16, 5 \times 16, 6 \times 16$
= 16, 32, 48, 64, 80, 96

4. The product of two numbers is 36.

So, the factors of 36 are:-

~~So~~ $1 \times 36, 2 \times 18, 3 \times 12, 4 \times 9, 6 \times 6$

The sum of those numbers is 13.

So, $4 + 9 = 13$

∴ The required two numbers are 4 and 9.

product of two

5. The number is 48.

So, the factors of 48 are:-

$1 \times 48, 2 \times 24, 3 \times 16, 4 \times 12, 6 \times 8$

The sum of those numbers is 16

As, $4 + 12 = 16$

So, the required two numbers are 4 and 12.