

## EXERCISE 9(B)

1. (i) On dividing 9 by 7, ~~quot~~ quotient = 1 and remainder = 2
- (ii) On dividing 18 by 6, quotient = ~~2~~ 3 and remainder = 0
- (iii) Factor of a number is exact divisor of the number.
- (iv) Every no. is a factor of itself.
- (v) Every no. is a multiple of one.
- (vi) One is factor of every number.
- (vii) For every no., its factors are finite and multiples are infinite.
- (viii)  $x$  is a factor of  $y$ , then  $y$  is a multiple of  $x$ .

2. (i)  $16 = 1 \times 16$   
 $= 2 \times 8$   
 $= 4 \times 4$

$16 = 1, 2, 4, 8, 16$

(ii)  $21 = 1 \times 21$   
 $3 \times 7$

$21 = 1, 3, 7, 21$

(iii)  $39 = 1 \times 39$   
 $3 \times 13$

$39 = 1, 3, 13, 39$

(iv)  $48 = 1 \times 48$   
 $2 \times 24$   
 $3 \times 16$   
 $4 \times 12$   
 $6 \times 8$

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

(v)  $64 = 1 \times 64$   
 $2 \times 32$   
 $8 \times 8, 4 \times 16$

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

(vi)  $98 = 1 \times 98$   
 $2 \times 49$   
 $7 \times 14$

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



3. (i)  $4 = 4, 8, 12, 16, 20, 24$

(ii)  $9 = 9, 18, 27, 36, 45, 54$

(iii)  $11 = 11, 22, 33, 44, 55, 66$

(iv)  $15 = 15, 30, 45, 60, 75, 90$

(v)  $18 = 18, 36, 54, 72, 90, 108$

(vi)  $16 = 16, 32, 48, 64, 80, 96$

4. The product of two numbers = 36

$$36 = 1 \times 36 \rightarrow 37$$

$$2 \times 18 \rightarrow 20$$

$$3 \times 12 \rightarrow 15$$

$$4 \times 9 \rightarrow \textcircled{13}$$

$$6 \times 6 \rightarrow 12$$

The numbers are 4 and 9 as  $4 \times 9 = 36$  and  $4 + 9 = 13$ .

5. The product of two numbers = 48

$$48 = 1 \times 48 \rightarrow 49$$

$$2 \times 24 \rightarrow 26$$

$$3 \times 16 \rightarrow 19$$

$$4 \times 12 \rightarrow \textcircled{16}$$

$$6 \times 8 \rightarrow 14$$

The nos. are 4 and 12 as  $4 \times 12 = 48$  and  $4 + 12 = 16$ .