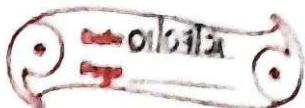


Chapter - 9  
Ex - 9.B



Q.U E.T.B

- i) Q = 1 and R = 2
- ii) Q = 3 and R = 0
- iii) Exact divisor of the number
- iv) 9 itself
- v) 9 itself
- vi) 1
- vii) Finite and Infinite
- viii) Multiple

2. Write all the factors of:

i) 16

ans:- 1, 2, 4, 8 and 16.

ii) 21

ans:- 1, 3, 7 and 21.

iii) 39

ans:- 1, 3, 13 and 39.

iv) 48

ans:- 1, 2, 3, 4, 6, 8, 12, 24 and 48.

v) 64

ans:- 1, 2, 4, 8, 16, 32 and 64.

vi) 98

ans:- 1, 2, 7, 14, 49 and 98.

3. Write first six multiples of:

i) 4

ans:- 4, 8, 12, 16, 20 and 24.

i) 9

ans - 9, 18, 27, 36, 45 and 54.

iii) 11

ans - 11, 22, 33, 44, 55 and 66.

iv) 15

ans - 15, 30, 45, 60, 75 and 90.

v) 18

ans - 18, 36, 54, 72, 90 and 108.

vi) 16

ans - 16, 32, 48, 64, 80 and 96.

A4. Since,  $36 = 1 \times 36, 2 \times 18, 3 \times 12, 4 \times 9, 6 \times 6$

Clearly nos are 4 and 9 as  $4 \times 9 = 36$  and  $4+6=13$ .

A5. Since,  $48 = 1 \times 48, 2 \times 24, 3 \times 16, 4 \times 12$

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

A6. Since,  $54 = 1 \times 54, 2 \times 27, 3 \times 18, 6 \times 9$

Clearly numbers are 6 and 9 as  $6 \times 9 = 54$  and  $9-6=3$ .

A7.  $7 \times 7 = 7 \times 1 + 7$

$$= 7 \times (1000+1) = 7 \times 1001$$

Clearly  $1001$  is divisible by 7

A8.  $23,00,023 = 23,00,00 + 23$

$$23 \times (1,00,000+1) = 23 \times 1,00,001$$

Clearly  $23,00,023$  is divisible by 23

$$9.\text{i)} 11,011 = 11,000 + 11$$

$$= 11 \times (1,000 + 1) = 11 \times 1,001$$

Clearly 11,011 is divisible by 11

$$9.\text{ii)} 11,0011 = 11,0000 + 11$$

$$= 11 \times (1,0000 + 1) = 11 \times 1,0001$$

Clearly 11,0011 is divisible by 11

$$9.\text{iii)} 11,000011 = 1,10,00,000 + 11$$

$$= 11 \times (1,00,000 + 1) = 11 \times 10,00,001$$

Clearly 1,10,00,011 is divisible by 11

$$10.\text{i)} 1,608 = 1,600 + 8$$

$$= 8 \times (200 + 1) = 8 \times 108 = 8 \times (200 + 1) = 8 \times 201$$

Clearly 1,608 is clearly divisible by 8

$$A.\text{i)} \cancel{56,000} 56,008 = 56,000 + 8$$

$$= 8 \times (7,000 + 1) = 8 \times 7,001$$

Clearly 56,008 is divisible by 8

$$A.\text{ii)} 24,0008 = 24,00,000 + 8$$

$$= 8 \times (3,00,000 + 1) = 8 \times 30,001$$

Clearly 24,00,008 is divisible by 8.