

30.6.21

Ex-9.2

1. (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 divisor of the given no.
- (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 factors are finite and its multiples are infinite.
- (viii) x is a factor of y , then y is a multiple of x .

2. (i) $16 = 1, 2, 4, 4, 8, 16$

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

(ii) $21 = 1, 3, 7, 21$

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

(iii) $39 = 1, 3, 13, 39$

(vi) $98 = 1, 2, 7, 14, 49, 98$

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

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

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

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

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

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

4. Factors of 36 =

1×36 36×1

2×18 20

3×12 15

4×9 **13**

6×6 12

So, the required numbers are 4 and 9.

5. Factors of 48 =

1×48 4×12

16

2×24 26

6×8 14

3×16 19

So, the required numbers are 4 and 12.

6. Factors of 54 =

$$1 \times 54 \quad \cancel{55} \quad 53$$

$$2 \times 27 \quad \cancel{29} \quad 25$$

$$3 \times 18 \quad \cancel{24} \quad 15$$

$$6 \times 9 \quad \textcircled{3}$$

So, the required numbers are 6 and 9.

7. $7007 = 7000 + 7$

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

$$= 7 \times 1001$$

So, 7007 is divisible by 7.

8. $2300023 = 2300000 + 23$

$$= 23 \times (100000 + 1)$$

$$= 23 \times 100001$$

So, 2300023 is divisible by 23.

9. (i) $11011 = 11000 + 11$

$$= 11 \times (1000 + 1)$$

$$= 11 \times 1001$$

So, 11011 is divisible by 11.

(ii) $110011 = 110000 + 11$

$$= 11 \times (10000 + 1)$$

$$= 11 \times 10001$$

So, 110011 is divisible by 11.

(iii) $11000011 = 11000000 + 11$

$$= 11 \times (1000000 + 1)$$

$$= 11 \times 1000001$$

So, 11000011 is divisible by 11.

$$10.(i) \quad 1608 = 1600 + 8$$

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

$$= 8 \times 201$$

So, 1608 is divisible by 8.

$$(ii) \quad 56008 = 56000 + 8$$

$$= 8 \times (7000 + 1)$$

$$= 8 \times 7001$$

So, 56008 is divisible by 8.

$$(iii) \quad 240008 = 240000 + 8$$

$$= 8 \times (30000 + 1)$$

$$= 8 \times 30001$$

So, 240008 is divisible by 8.