

### Ex-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 that number.
- iv) Every number is a factor of itself.
- v) Every number is a multiple of itself.
- vi) one 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  $x$ .

2) Write all the factors of:

i) 16 : 1, 2, 4, 8, 16

ii) 21 : 1, 3, 7, 21

iii) 39 : 1, 3, 13, 39

iv) 48 : 1, 2, 3, 4, 6, 8, 12, 24, 48, 16

v) 64 : 1, 2, 4, 8, 16, 32, 64

vi) 98 : 1, 2, 7, 14, 49, 98

3) Write first six multiples of:

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 is 36 and their sum is 13. Find the numbers.

36 can be written as

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

Here, the sum of 4 and 9 is 13

Hence, 4 and 9 are the two numbers

5) The product of two numbers is 48 and their sum is 16. Find the numbers.

Ans: 48 can be written as

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

Here, the sum of 4 and 12 is 16

Hence, 4 and 12 are the two numbers.

6) Write two numbers which differ by 3 and whose product is 54.

Ans: 54 can be written as =  $1 \times 54 = 54, 2 \times 27 = 54, 3 \times 18 = 54,$

$$\text{Ans: } 6 \times 9 = 54$$

Here, the product of 6 and 9 is 54 and  $9 - 6 = 3$ .

So, 6 and 9 are the numbers.

7) Without making any actual division, show that 7007 is divisible by 7.

$$7000 = 7 \times (1000 + 1) = 7 \times 1001$$

so, clearly 7007 is divisible by 7

8) Without making any actual division, show that 230023 is divisible by 23.

$$\text{Ans: } 230000 + 23$$

$$= 23 \times (10000 + 1) = 23 \times 10001$$

9) Without making any actual division, show that each of the following numbers is divisible by 11.

$$\text{(i) } 11011 = 11000 + 11$$

$$= 11 \times (1000 + 1) = 11 \times 1001$$

$$\text{ii)} \quad 110011 = 110000 + 11 = 11 \times (10000 + 1) \\ = 11 \times 10001$$

$$\text{iii)} \quad 11011 =$$

$$\text{i)} \quad 11011 = 11000 + 11 \\ = 11 \times (1000 + 1) \\ = 11 \times 1001$$

4. clearly, 1101 is divisible by 11.

$$\text{ii)} \quad 110011 = 110000 + 11 \\ = 11 \times (10000 + 1) \\ = 11 \times 10001$$

110011 is divisible by 11.

$$\text{iii)} \quad 1100011 = 1100000 + 11 \\ = 11 \times (100000 + 1) \\ = 11 \times 100001$$

clearly, 1100011 is divisible by 11.

10) Without actual division, show that each of the following numbers is divisible by 8:

$$\text{i)} \quad 1608 = 1600 + 8 \\ = 16 \times (100 + 5) = 8 \times (200 + 1) \\ = 8 \times 201$$

clearly, 1608 is divisible by 8.

$$\text{ii)} \quad 56008 = 56000 + 8 \\ = 8 \times (7000 + 1) \\ = 8 \times 7001$$

clearly, 56008 is divisible by 8.

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$$\begin{aligned} \text{c.c)} \quad 240008 &= 240000 + 8 \\ &= 8 \times (30000 + 1) \\ &= 8 \times 30001 \end{aligned}$$

Clearly,  $\odot$  240008 is divisible by 8.

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