

D6 -
2.07.2021

EX-9B

(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 no. is an exact division of the number.

iv) Every number is a factor of itself

v) Every no. is a multiple of itself.

vi) One is factor of every no.

vii) X is a factor of y, then y is a ~~not~~ multiple of x

(viii) For every no., its factors are finite and its multiples are infinite

(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, 16, 24, 48

$$v) 64 - 1, 2, 4, 8, 16, 32, 64$$

$$vi) 98 - 1, 2, 7, 14, 49, 98.$$

$$③ i) 4 - 4, 8, 12, 16, 20, 24.$$

$$ii) ~~8-8, 16~~ 9-9, 18, ~~27~~, 36, 45, 54.$$

$$iii) 11 - 11, 22, 33, 44, 55, 66.$$

$$iv) 15 - 15, 30, 45, 60, 75, 90.$$

$$v) 18 - 18, 36, 54, 72, 90, 108.$$

$$vi) 16 - 16, 32, 48, 64, 80, 96.$$

④ 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 ~~sums~~ sum of
4 and 9 is 13

Hence, 4 and 9 are the two numbers

$$⑤ ~~48~~ 1 \times 48 = 48$$

$$2 \times 24 = 48$$

$$3 \times 16 = 48$$

$$4 \times 12 = 48$$

$$6 \times 8 = 48$$

Here the sum of ~~4 and 2~~

is 16, hence, 4 and 12 are the

2 nos.

⑥ $1 \times 54 = 54$
 $2 \times 27 = 54$
 $3 \times 18 = 54$
 $6 \times 9 = 54$

Here the difference between 6 and 9 is 3.

Hence, 6 and 9 are the two no.s

⑦ Given
 7007

This can be written as
 $= 7000 + 7$
 $= 7 \times (1000 + 1)$
 $= 7 \times 1001$

clearly, 7007 is divisible by 7.

⑧ Given

2300023

This can be written as
 $= 2300000 + 23$
 $= 23 \times (100001)$

clearly, 2300023 is divisible by

⑨ i) 11001

This can be written as
 $= 11000 + 1$
 $= 11 \times (1000 + 1)$
 $= 11 \times 1001$

clearly 11001 is divisible by 11

ii) 11011

This can be written as
 $= 11000 + 11$
 $= 11 \times (1000 + 1)$
 $= 11 \times 1001$
 clearly 11011 is divisible by 11.

ii) 11000011

This can be written as
 $= 11000000 + 11$
 $= 11 \times (1000000 + 1)$
 $= 11 \times 1000001$

clearly, 11000011 is divisible by 11.

iii) 1608

this can be written as
 $= 1600 + 8$
 $= 8 \times (200 + 1)$
 $= 8 \times 201$
 clearly 1608 is divisible by 8.

iv) 560008

This can be written as
 $= 560000 + 8$
 $= 8 \times (70000 + 1)$
 $= 8 \times 70001$
 clearly 560008 is divisible by 8.

v) 240008

This can be written as
 $= 240000 + 8$
 $= 8 \times (30000 + 1)$

$\approx 8 \times 3000$
clearly, 24000 is divisible by 8 .