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Date
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Ex-9B

(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 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 multiple of x

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

(2) 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, ~~8~~, 4, 8, 16, 32, 64

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

③ i) 4 - 4, 8, 12, 16, 20, 24.

ii) ~~8, 11~~ 9 - 9, 18, 27, 36, 45, 54.

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

~~12~~

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

v) 19 - 18, 36, 54, 72, 90, 108

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

④ 36 can be written as

1 × 36 = 36
2 × 18 = 36
3 × 12 = 36
4 × 9 = 36
6 × 6 = 36

Here ~~the sums~~ Sum of
4 and 9 is 13

Hence, 4 and 9 are the two numbers

⑤ ~~48~~ 1 × 48 = 48
2 × 24 = 48
3 × 16 = 48
4 × 12 = 48

6 × 8 = 48

Here the sum of ~~4 and~~ 2
is 16
Hence, 4 and 12 are the
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
$= 7008 + 7$
$= 7 \times (1000 + 1)$
$= 7 \times 1001$
clearly, 7007 is divisible by 7.

(8) Given
23000023
This can be written as
$= 23000000 + 23$
$= 23 \times (1000001)$
clearly, 23000023 is divisible by

(9) i) 11001
This can be written as
$= 11000 + 11$
$= 11 \times (10,000 + 1)$
$= 11 \times 1001$
clearly 11011 is divisible by 11.

ii) 11011

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

iii) 1100011
This can be written as
$= 11000000 + 11$
$= 11 \times (1000000 + 1)$
$= 11 \times 1000001$

clearly, 1100011 is divisible by 11.

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

ii) $56000 + 8$

This can be written as
$= 56000 + 8$
$= 8 \times (7000 + 1)$
$= 8 \times 7001$
clearly 56008 is divisible by 8.

iii) 240008
This can be written as
$= 240000 + 8$
$= 8 \times (30000 + 1)$

= 8 x 3000!
clearly, 24000! is divisible by 8.