30/6-21

EXERCISE - 9 B

Date
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Evaluation Question

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 the 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) If x is a factor of y, then y is a multiple of x.

2.

i) 16

A:→ 16 = 1, 2, 4, 8, 16

ii) 21

A:→ 21 = 1, 3, 7, 21

iii) 39

A:→ 39 = 1, 3, 13, 39

iv) 48

A:→ 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48.

v) 64

A:→ 64 = 1, 2, 4, 8, 16, 32 and 64

vi) 98:

A:→ 98 = 1, 2, 7, 14, 49 and 98

3. Multiples

i) 4
A:) 4: 4, 8, 12, 16, 20, 24
ii) 21
A:) 21: 21, 42, 63, 84, 105, 126
iii) 11
A:) 11: 11, 22, 33, 44, 55, 66
iv) 15
A:) 15: 15, 30, 45, 60, 75, 90
v) 18
A:) 18: 18, 36, 54, 72, 90, 108
vi) 16
A:) 16: 16, 32, 48, 64, 80, 96

4. The product of two numbers is 36 and their sum is 13. Find the numbers.
A:) Since, $36 = 1\times36,\ 2\times18,\ 3\times12,\ 4\times9,\ 6\times6$
Clearly numbers are 4 and 9 as $4\times9=36$ and $4+9=13$.

5. The product of two numbers is 48 and their sum is 16. Find the numbers.
A:) Sum of 4 and 12 is 16. Therefore, the numbers are 4 and 12.

6. Write two numbers which differ by 3 and whose product is 54.
A:) Difference between 6 and 9 is 3.
Therefore,
two numbers are 6 and 9.

7. Without making any actual division Show that 7007 is divisible by 7.

Ans: $7007 = 7000 + 7$
$= 7 \times (1000 + 1) = 7 \times 1001$
Clearly, 7007 is divisible by 7.

8. Without making any actual division, Show that 2300023 is divisible by 23.

Ans: $2300023 = 2300000 + 23 = 23 \times (100000 + 1)$
$= 23 \times 100001.$
Clearly, 2300023 is divisible by 23.

10.

i) $1608 = 1600 + 8$
$= 8 \times 200 + 8 \times 1$
$= 8 \times (200 + 1) = 8 \times 201$

1608 is multiple of 8
∴ 1608 is divisible by 8

ii) $56008 = 56000 + 8$
$= 8 \times 7000 + 8 \times 1$
$= 8 \times (7000 + 1) = 8 \times 7001$

iii) $240008 = 240000 + 8$
$= 8 \times 30000 + 8 \times 1$
$= 8 \times (30000 + 1)$
$= 8 \times 30001$