H.W
2/06/2021

Exercise - 9 (B)

1. i) Q = 1 and R = 2

ii) Q = 3 and R = 0

iii) Exact divisor of the number.

iv) Itself

v) Itself

vi) One

vii) finite and infinite

viii) Multiple

2. All factors of 16 are = 1, 2, 4, 8, 16

All factors of 21 are = 1, 3, 7, 21

All factors of 39 are = 1, 3, 13, 39

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iv) All factors of 48 are = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

v) All factors of 64 are = 1, 2, 4, 6, 8, 17 16, 32, 64

vi) All factors of 98 are = 1, 2, 7, 14, 49, 98

3. i) ~~1 X 4 = 4~~ Following are the first six multiples of 4

1 X 4 = 4, 2 X 4 = 8, 3 X 4 = 12, 4 X 4 = 16, 5 X 4 = 20 & 4 = 24

~~ii~~ Hence, multiples of 4 are 4, 8, 12, 16, 20 and 24.

(ii) Following are the first six multiples of 9

1 X 9 = 9, 2 X ~~42~~ 9 = 18, 3 X 9 = 27

4 X 9 = 36, 5 X 9 = 45, 6 X 9 = 54

Hence, multiples of 9 are 9, 18, 27, 36, 45 and 54

4. 36 can written as

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

Here, the sum of 4 and 9 is 13

Hence, 4 and 9 are two numbers

5. 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. 54 can be written as

$1 \times 54 = 54$

$2 \times 27 = 54$

$3 \times 18 = 54$

$6 \times 9 = 54$

Here, the difference between 6 and 9 is 3

Hence, 6 and 9 are the ~~product~~ two numbers.

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7. 7007

This can be written as

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

clearly, 7007 is divisible by 7.

8. 230023

This can be written as

$= 2300000 + 23$

$= 23 \times (100000 + 1)$

$= 23 \times 100001$

clearly, 2300023 is divisible by 23

9. i) 11011

This can be written as

$= 11000 + 11$
$= 11(1000 + 1)$
$= 11 \times 1001$
$= 11011$

clearly, 11011 is divisible by 11

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iii) 110011

This can be written as

$110000 + 11$
$= 11(10000 + 1)$
$= 11 \times 10001$

clearly, 110011 is divisble by 11

iiii) 11000011

This can be written as

$11000000 + 11$
$= 11(1000000 + 1)$
$= 11 \times 1000001$

clearly, 11000011 is divisible by 11

10. i) 1608

This can be written as

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

Clearly, 1608 is divisible by 8

ii) 56008

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This can be written as

$56000+8$
$=8(7000+1)$
~~$=8\times7000$~~
$=8\times7001$
$=56008$

clearly, 56008 is divisible by 8

iii) 240008

This can be written as

$240000+8$
$=8(30000+1)$
$=8\times30001$
$=240008$

clearly, 240008 is divisible by 8