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Mathematics - Ex-9(B)

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1. ii) $q = 1$ $R = 2$

iii) $q = 3$ $R = 0$

iii) Exact divison, The number

iv) itself

v) itself

vi) one

vii) finite, infinite

viii) Multiple

2. i) 16 = 1, 2, 4, 8 and 16

ii) 21 = 1, 3, 7 and 21

iii) 39 = 1, 3, 13 and 39

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

v) 64 = 1, 2, 4, 8, 16, 32 and 64

vi) 98 = 1, 2, 7, 14, 49 and 98

3) i) 4 = 4, 8, 12, 16, 20 and 24

ii) 9 = 9, 18, 27, 36, 45 and 54

iii) 11 = 11, 22, 33, 44, 55 and 66

iv) 15 = 15, 30, 45, 60, 75 and 90

v) 18 = 18, 36, 54, 72, 90 and 80

vi) 16 = 16, 32, 48, 64, 80 and 96

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

Clearly numbers are 4 and 9 as $4 \times 9 = 36$

and $4 + 9 = 13$.

5. Since $48 = 1 \times 48, 2 \times 24, 4 \times 12, 6 \times 2$

Clearly numbers are 4 and $12 = 4 \times 12 = 48$

and $4 + 12 = 16$

6. 6 and 9 are two numbers are differ from and its product is 54.

7. $7007 = 7000+7$

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

* Clearly, 7007 is divisible by 7.

8. $2300023 = 2300000+23$

$= 23 \times (100000+1) = 23 \times 1000001$

Clearly, 2300023 is divisible by 23

9. i) $11011 = 11000+11$

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

Clearly, 11011 is divisible by 11

ii) $110011 = 110000+11$

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

Clearly, 110011 is divisible by 11

iii) $1100011 - 11000011$

$= 11 \times (10000000 + 1) = 11 \times 10000001$

Clearly, 11000011 is divisible by 11

10. i) $1608 = 1600 + 8$

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

Clearly, 1608 is divisible by 8

ii) $56008 = 56000 + 8$

$= 8 \times (7000 + 1) = 8 \times 7001$

Clearly, 56008 is divisby by 8

iii) $240008 = 240000 + 8$

$= 8 \times (30000 + 1) = 8 \times 30001$

Clearly, 24008 is divisible by 8.