Ex 9B

6. 54
= ~~1, 2, 3, 6~~
= 54 × 1 = 54
= 27 × 2 = 54
= 18 × 3 = 54
= 9 × 6 = 54

= Numbers are 9 and 6 as
9 × 6 = 54
9 − 6 = 3

7. 7007 = 7000 + 7
= 7 × (1000 + 1) = 7 × 1001

= Clearly 7007 is divisible by 7

8. 2300023 = 23000000 + 23
= 23 × (10000001)
= 23 × 10000001
= 2300023
= Clearly, 23 is divisible by 2300023

9. 11011 = 11000 + 11
= 11 × (1000 + 1) = 11 × 1001

= Clearly 11011 is divisible by 11.

Rough
10001
× 11
10001
10010
11011

= 1.1001 [illegible] 110000 + 11$

= 11 ¥ (10000 + 1) = [illegible]

= 11 X 10001

Rough
10001
× 11
10001
100010
110011

= Clearly 110001 is divisible by 11

= 11000011 = 10000000

= 11000000 + 11

= 11 X (1000000 + 1)

= 11 X 1000001

= Clearly 11000011 is divisible by 11

Rough
1000001
× 11
1000001
10000010
11000011

10) i) 1608

$= 1600 + 8$

$= 8 \times (200 + 1)$

$= 8 \times 201$

= Clearly 1608 is divisible by 8.

ii) 56008

$= 56000 + 8$

$= 8 \times (7000 + 1)$

$= 8 \times 7001$

$= 56008$

= Clearly 56008 is divisible by 8

iii) 240008

$= 240000 + 8$

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$= 8 \times (300001)$

$= 8 \times 30001$

$= 240008$

Clearly 240008 is divisible by 8

Rough

30001

× 8

240008