

Ex 9(B)

6) Write two numbers which differ by 3 and whose product is 54

Ans) Product = 54
The nos are 6 & 9

$$1 \times 54 = 54$$

$$2 \times 27 = 54$$

$$6 \times 9 = 54$$

$$3 \times 18 = 54$$

7) Without ~~two~~ numbers making any actual division show that 7007 is divisible by 7.

Ans) Clearly, 7007 is divisible by 7

$$7007 = 7000 + 7$$

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

$$= 7 \times 1001$$

7007 is divisible by 7

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

Ans) Clearly, 2300023 is divisible by 23.

$$2300023 = 23,00,000 + 23$$

$$= 23 \times (1,00,00,00 + 1)$$

$$= 23 \times 1,00,00,001$$

2300023 is divisible by 23.

9) 11011

Ans) $11011 = 11,000 + 11$

$$= 11 \times (10,000 + 11)$$

$$= 11 \times 10,011$$

$$= 11011$$

10) Without actual division, show that each of the following numbers is divisible by 8.

iii) ~~56008~~ 240008

Ans)

$$\begin{aligned} 240008 &= 24,0000 + 8 \\ &= 24 \times (10,00,000 + 8) \\ &= 24 \times 10,00,008 \\ &= 240008 \end{aligned}$$

ii) 56008

$$\begin{aligned} \text{Ans) } 56008 &= 56,000 + 8 \\ &= 56 \times (10,000 + 8) \\ &= 56 \times 10,008 \\ &= 56008 \end{aligned}$$

i) 1608

$$\begin{aligned} \text{Ans) } 1608 &= 16,00 + 8 \\ &= 16 \times (10,000 + 8) \\ &= 16 \times 10,008 \\ &= 1608 \end{aligned}$$

a) ii) 110011

$$\begin{aligned} \text{Ans) } 110011 &= 11,0000 + 11 \\ &= 11 \times (1,00,000 + 11) \\ &= 11 \times 1,00,011 \\ &= 110011 \end{aligned}$$

iii) 11000011

$$\begin{aligned}\text{Ans) } 11000011 &= 11000000 + 11 \\ &= 11 \times (100,00,000 + 11) \\ &= 11 \times 1,00,00,011 \\ &= 11000011\end{aligned}$$