

5(1)

For what value of digit x , it :-

1. $1x5$ divisible by 3?

Solution,

Let take x as 0

105

Sum of the number $105 = 6$

So, 6 is divisible by 3

$\Rightarrow x = 0$ (Ans)

2. $31x5$ is divisible by 3?

Let take x as 3

3135

Sum of the number $3135 = 12$

So, 12 is divisible by 3

$\Rightarrow x = 3$ (Ans)

3. $28x6$ a multiple of 3?

Solution,

Let take x as 2

2826

Sum of the number $2826 = 18$

So, 18 is ~~divisible~~ ^{multiple} by 3

$\Rightarrow x = 2$ (Ans)

4. ~~24~~ $24n$ divisible by 6 ?

Let take n as 0

240

sum of 240 = 6

6 is divisible when the number is divisible by 3 and 2.

So, 6 is divisible by 3 and 2

$\Rightarrow n = 0$ (Ans)

5. $3n26$ a multiple of 6 ?

Solution,

Let take n as 1

3126

sum of 3126 = 12

6 is divisible when the number is divisible by 3 & 2

So, 12 is divisible by 3 and 2

$\Rightarrow n = 1$ (Ans)

6. $4n8$ is divisible by 4 ?

Solution,

Let take n as 0

4208

4 is divisible by 4 when the ^{last two} number is divisible by 4 and last digits are 00.

$\Rightarrow n = 0$ (Ans)

7. 0169, a multiple of 4?

Solution

Let take n as 0

Add the ~~the~~ number $01690 = 16$

∴ 16 is a multiple of 4

∴ $n = 0$ (Ans)

8. 7434 divisible by 9?

Solution

Let take n as 4

Add the sum = $7+4+3+4 = 18$

∴ 18 is divisible by 9

∴ $n = 4$ (Ans)

9. 57555 a multiple of 9?

Let take n as 7

Add the sum = $5+7+5+5+5 = 27$

∴ 27 is divisible by 9.

∴ $n = 7$ (Ans)

10. 352 divisible by 11?

Solution

Let take n as 5

= $352 = (3+2) - 5$

= $5 - 5 = 0$

∴ $n = 5$ (Ans)

11. Find a multiple of 11 ?

Solution

Let take n as 7

$$572 = (5+2) - 7$$

$$= 7 - 7$$

$$= 0$$

$$\therefore n = 7 \text{ (Ans)}$$

A. Prusty

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