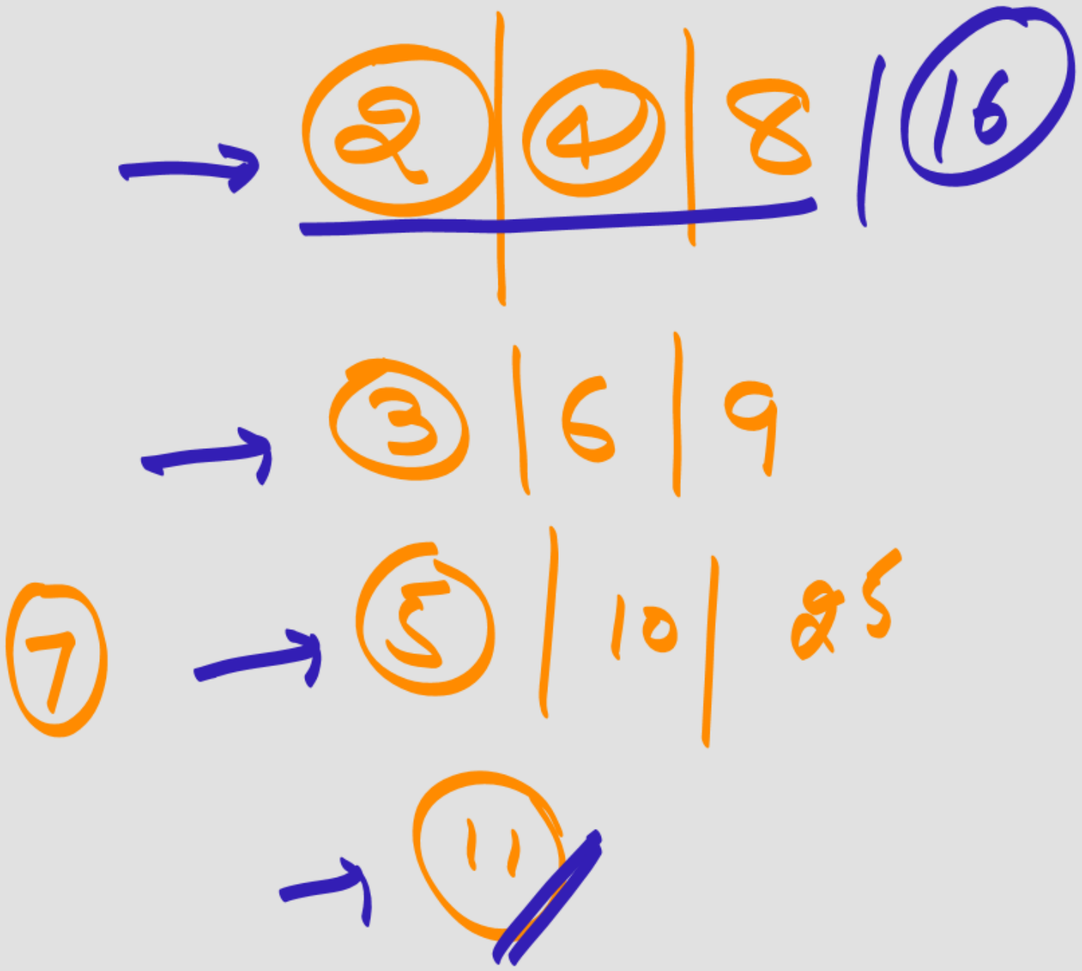
Numbers

NUMBER SYSTEM
(Divisibility Rule)

NO. OF QUESTIONS	MAXIMUM DAYS	CLASS DURATION
10 Questions	1 DAY	2 HOURS


2
4
8
16
3
6
9
7
5
10
25
11

DIVISIBILITY RULES

Divisible by 2

Divisible by 4

Divisible by 8

Divisible by 16

② :- If unit digit

Ex 1440 | 1046 | 0432

④ :- If last 2 digit //

Ex 48420 | 84324 | 92460

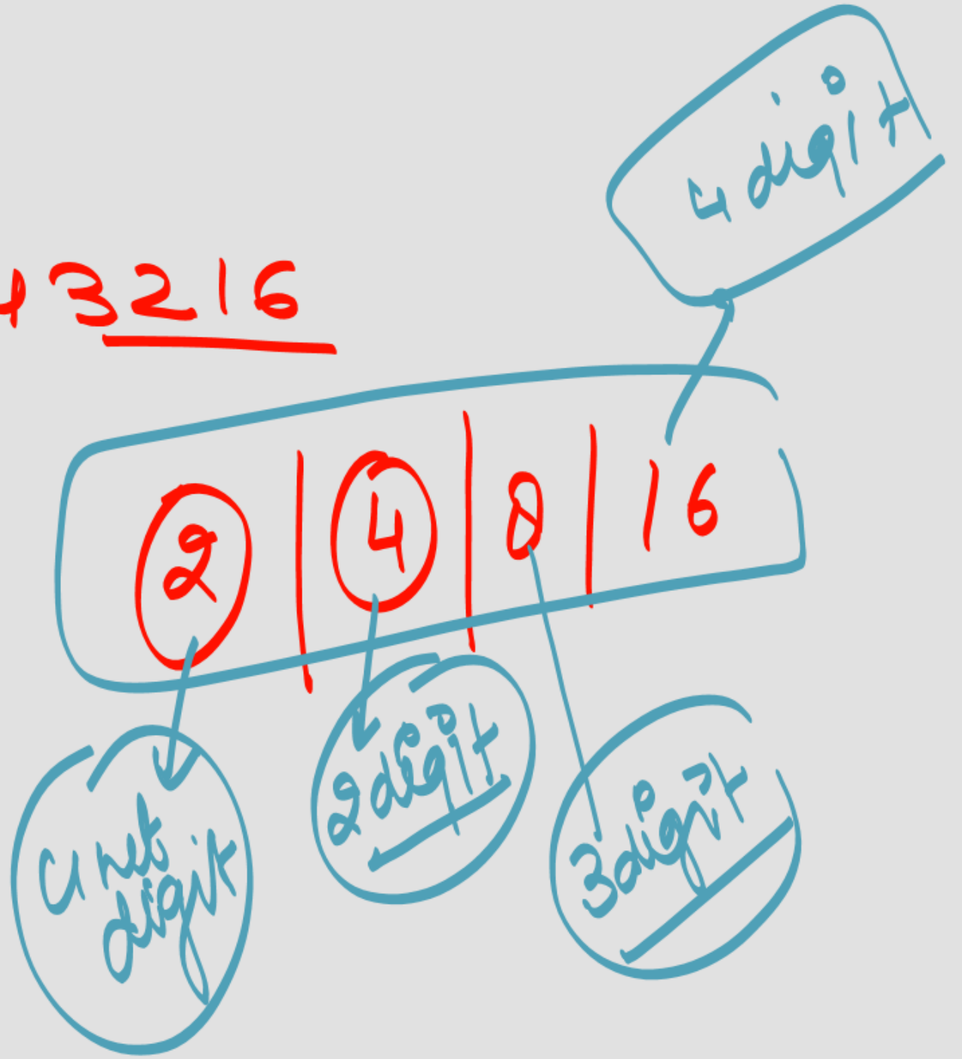
⑧ :- If last 3 digit

0400 | 04320 | 43240

| 2 | 4 | 8 |

(16) :- last 4 digit

Ex :- 18016 | 843216

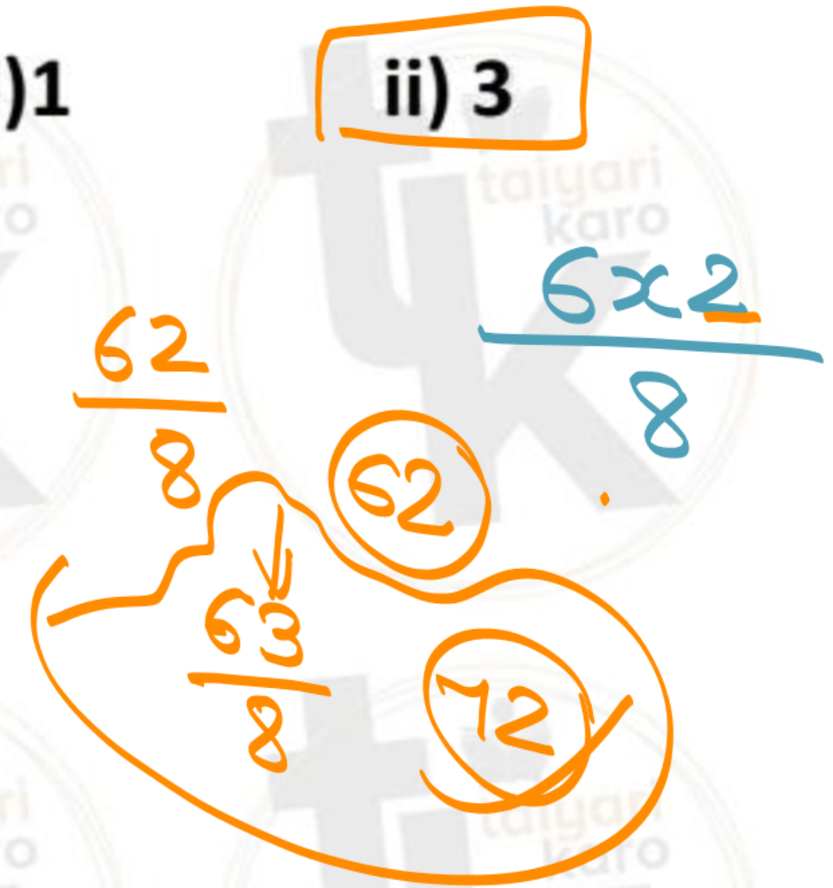


CLASS EXERCISE

Question : What least no must be put in place of * so that the no 63576*2 is divisible by 8 ?

i)1 ii) 3 iii)2 iv)4

(SSC CGL 2018 ,2019)



If 6483*24 is divisible by 8.

_____ _____ * = ?

$\frac{42}{8}$ → 24

$\frac{x24}{8}$ → x24 ④

x = 0 | 2 | 4 | 6 | 8 ✓

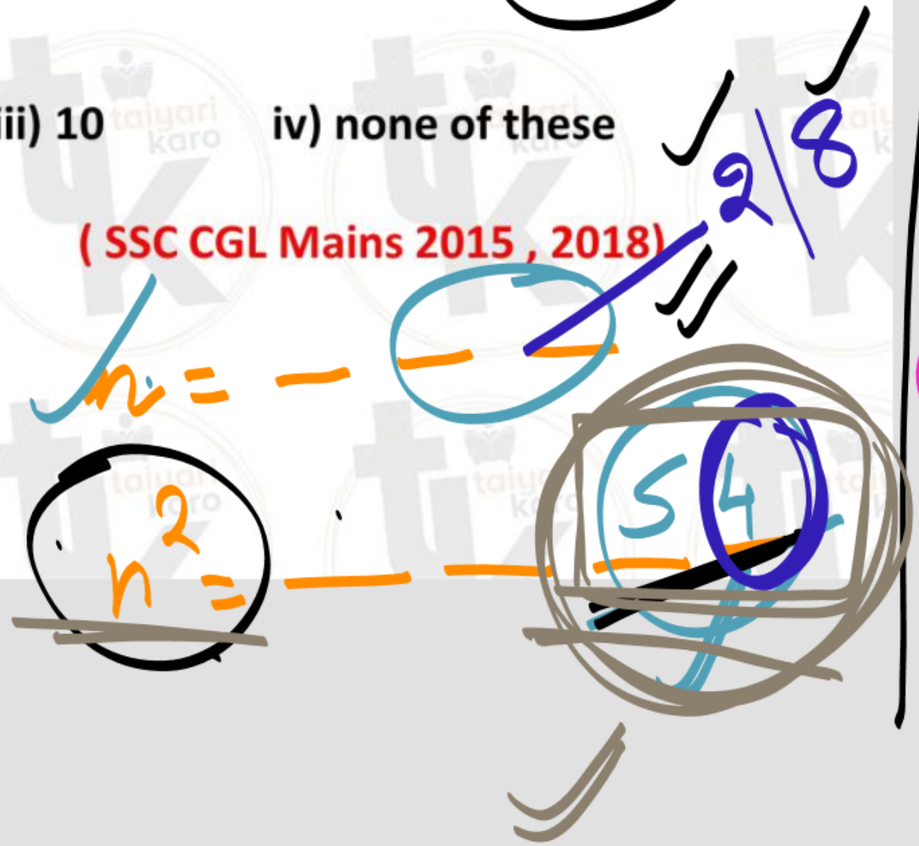
Note:- 2 | 4 | 8

CLASS EXERCISE

Question : If N is a 3-digit no. such that n^2= .....54 . Then find how many such numbers are possible for N ?

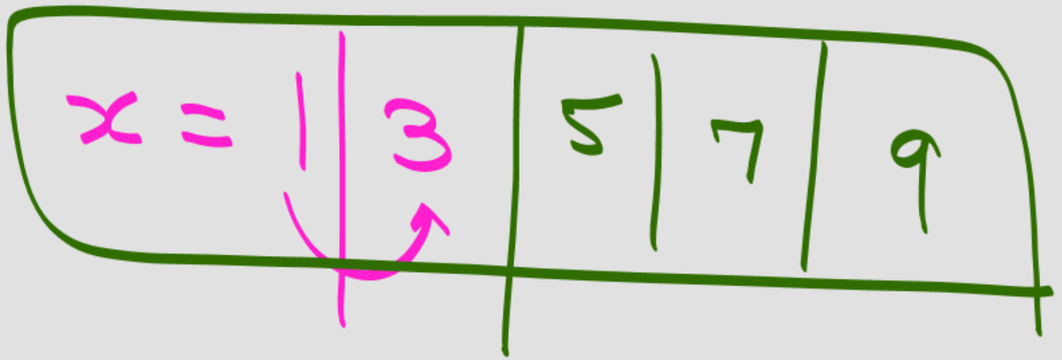
i) 1 ii) 0 iii) 10 iv) none of these

(SSC CGL Mains 2015 , 2018)



If 8464312 is divisible by 8
then find * = ?

$\frac{31}{8}$ 72 $\frac{x12}{8}$



2 | 4 | 8 | 16

mb

DIVISIBILITY RULES

Divisible by 3

Divisible by 9

Divisible by 6

3 | 6 | 9 :-

(3) :- Sum of digit

Ex :- 1842

Sum = 1 + 8 + 4 + 2

(15)

8432

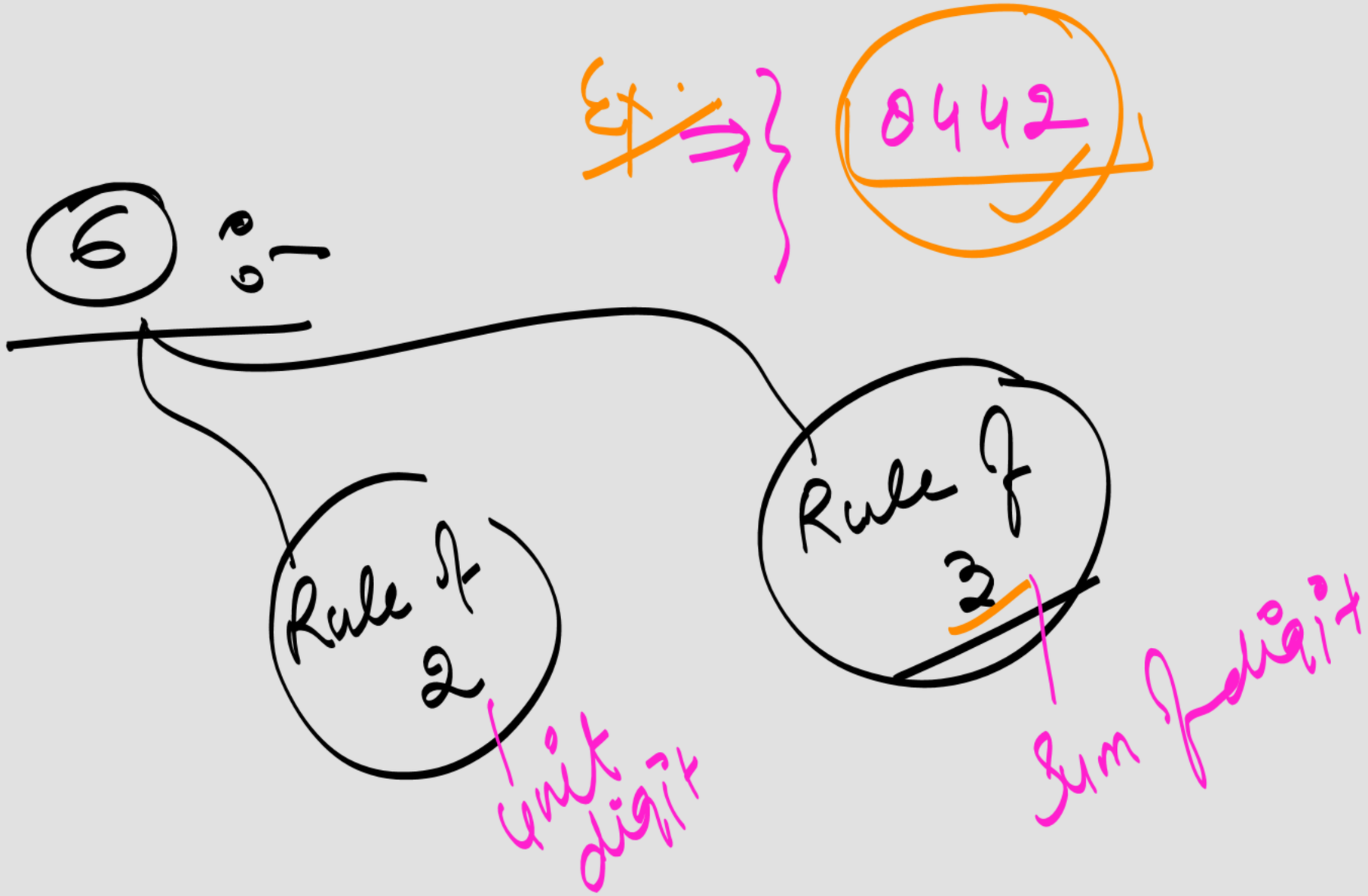
Sum = 18

9 :- Sum of digit

Example:- 84321 | 849636

$\boxed{\text{Sum} = 18}$

Sum = 18



Ex: ⇒ 0442

6 :-

Rule of 2

unit digit

Rule of 3

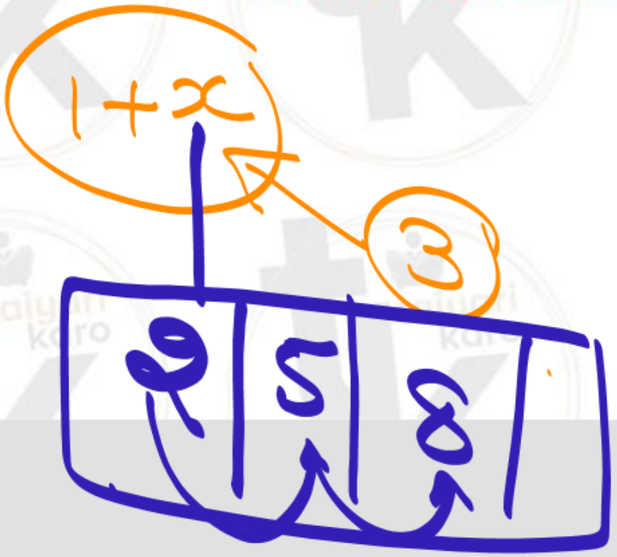
Sum of digit

CLASS EXERCISE

Question : If 8567*92 is divisible by 3 then find the value of * ?

i) 2 ii) 5 iii) 8 **iv) all of above**

(CGL Pre 2016 , CPO 2015 , 2018)

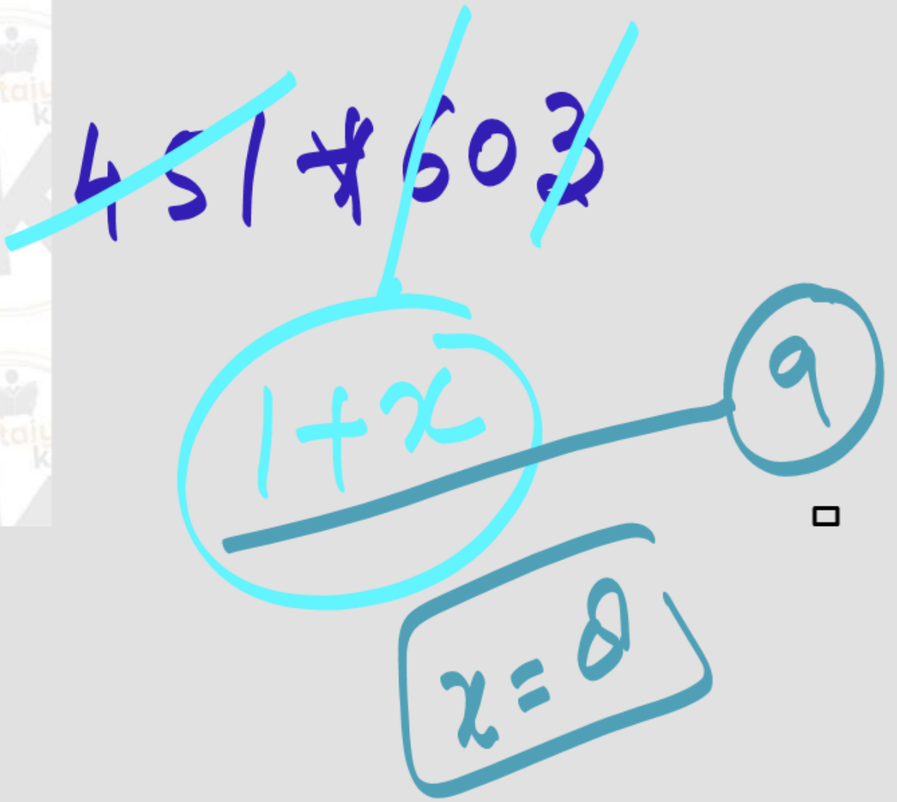


CLASS EXERCISE

Question : What least value must be assigned in place of * so that no. 451*603 is exactly divisible by 9 ?

I) 7 | II) 8 | III) 5 | iv)9

(CGL Pre 2017 , CPO 2018)

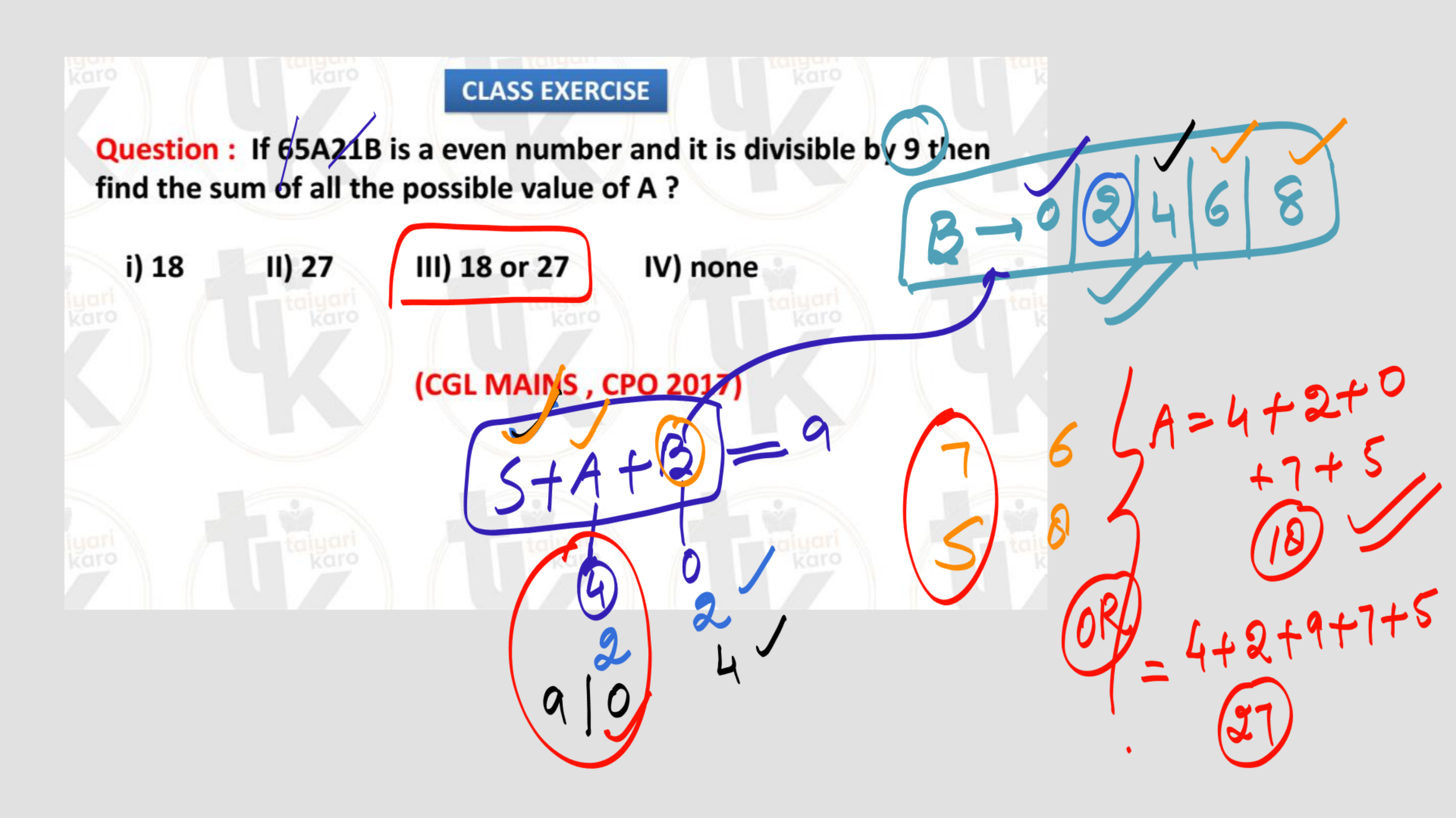


CLASS EXERCISE

Question : If 65A21B is a even number and it is divisible by 9 then find the sum of all the possible value of A ?

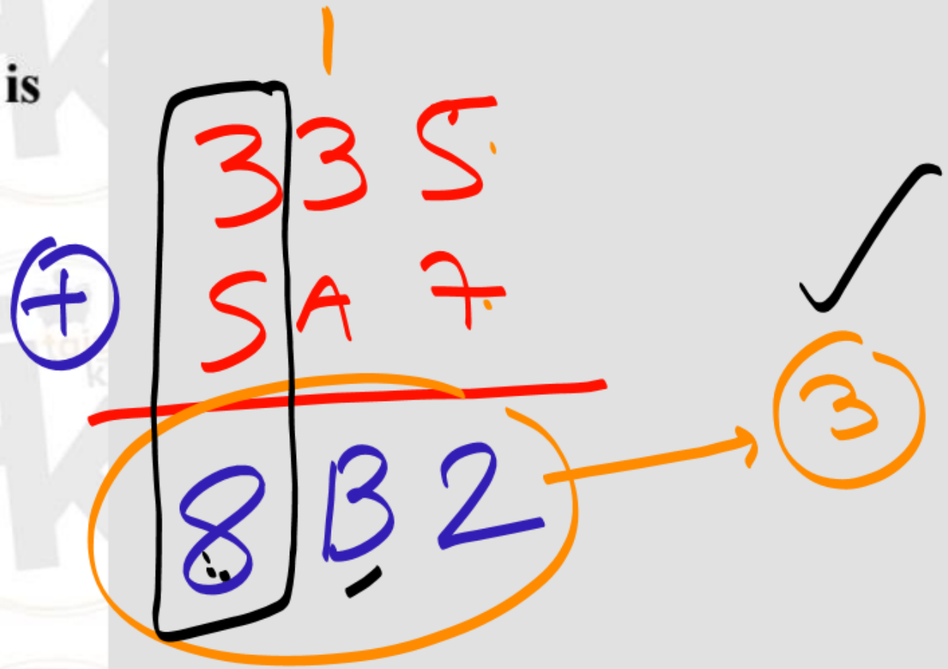
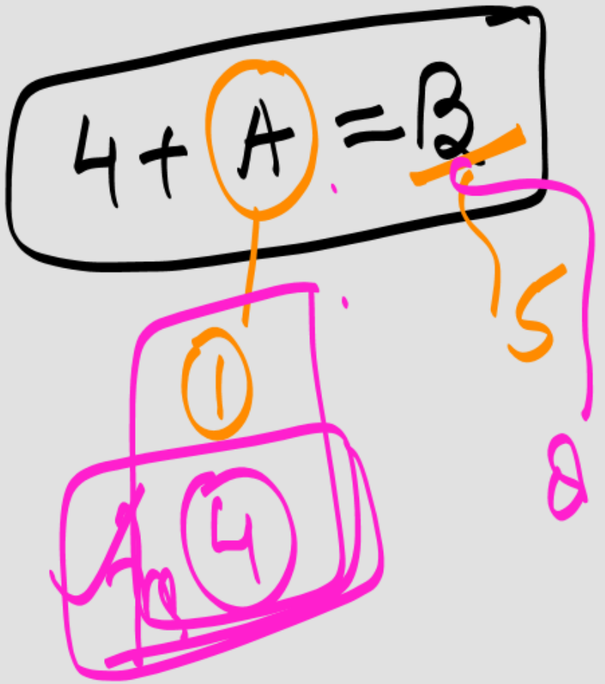
i) 18 II) 27 III) 18 or 27 IV) none

(CGL MAINS , CPO 2017)



CLASS EXERCISE

Question : When 335 is added to 5A7 then result is 8B2 . If 8B2 is completely divisible by 3 then What is the largest possible value of A?

I) 8 II) 5 III) 1 iv)4

(CGL Mains 2014 , CHSL 2017)