



Sahi Prep Hai Toh Life Set Hai

# DIVISIBILITY RULES





Agenda



gradeup Agenda Theory & Concepts of > (45 min - 50min) Divisibility (50-55)mi Practice Q Sahi Prep Hai Toh Life Set Hai

Agenda

Theory & Concepts of (45 min - 50 min) Question -> (50-55)min Sahi Prep Hai Toh Life Set Hai

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324 -543 ×

Divisibility Rule of 2

If the unit digit of a number is 0, 2, 4, 6 or 8 then the number is completely divisible by 2

Eg.: 128, 342, 646, 524, 120 all are divisible by 2

ot divisible

Divisibility

A number is

Eg.: 126 is di because (2 ly if the sum of all the digits of that number is divisible by 3 ause (1+ 1) is divisible by 3. But 2014 is not divisible by

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Divisibility Rule of 2

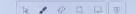
If the unit digit of a number is 0, 2, 4, 6 or 8 then the number is completely divisible by 2

Eg.: 128, 342, 646, 524, 120 all are divisible by 2

Divisibility rule of 3

A number is divisible by 3 only if the sum of all the digits of that number is divisible by 3 **Eg.**: 126 is divisible by 3 because (1+2+6) = 9 is divisible by 3. But 2014 is not divisible by because (2+0+1+4) = 7 is not divisible by 3.

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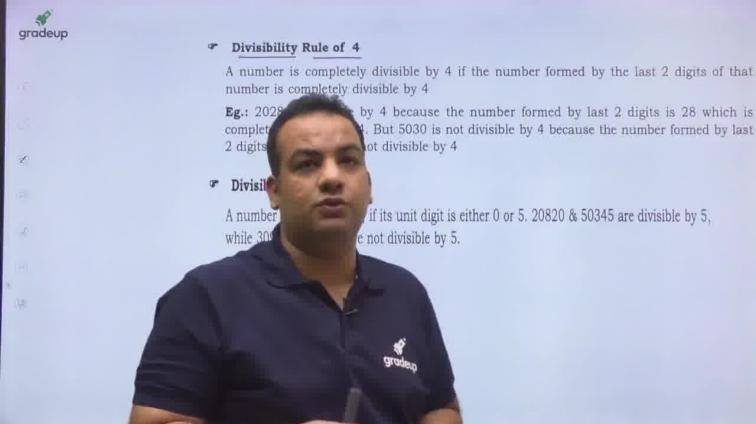
gradeup Reson - Divisibility 1 Sahi Prep Hai Toh Life Set Hai O I I

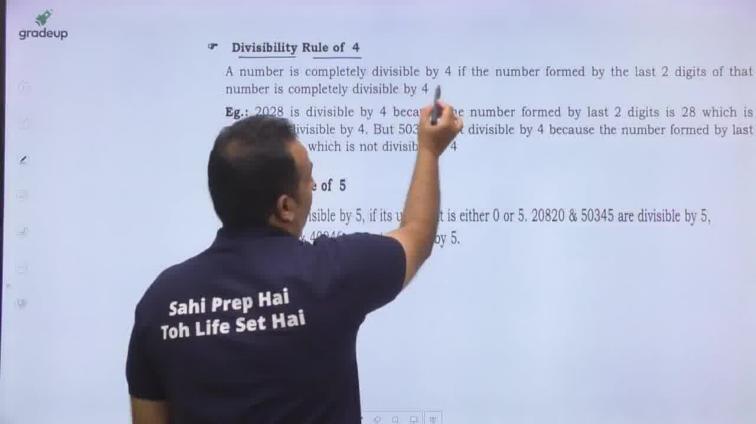
gradeup Reson - Divisibility Rule of 3 8 Sahi Prep Hai (9) Toh Life Set Hai

gradeup Reson - Divisibility Rule of 3 8 + 150b + 10c+d Sahi Prep Hai Toh Life Set Hai Ø Q ₽ ₹

gradeup Reson - Divisibility Rule of 3 0 1506 + 10c+d + 9×5+6+ 9<+c+d Sahi Prep Hai Toh Life Set Hai

gradeup Reson - Divisibility Rule of 3 8 10009 + 100+0 Sahi Prep Hai Toh Life Set Hai is divid gradeup Recon - Divisibility Rule of 3 -) 10009 + 1505 + 10C+d 9989+9 + 985+6+ 98+6+0 23+x -) 1/4,7 5873x is div by 3 Find the largest value of x?) R P O O F B



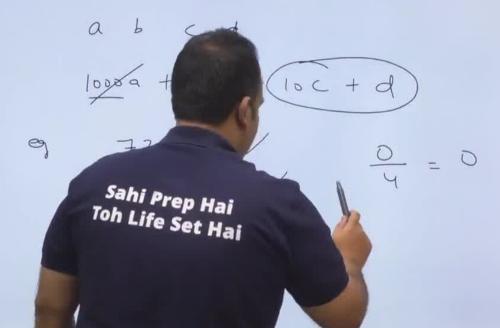


gradeup Ream Div Rule of 4 20×a + 1×0 b + 10 + d Sahi Prep Hai B O O II B

gradeup Reason Dis Rule of 4 0 Sahi Prep Hai Toh Life Set Hai gradeup Ream Dis Rule of 4 \* O T B

Reason

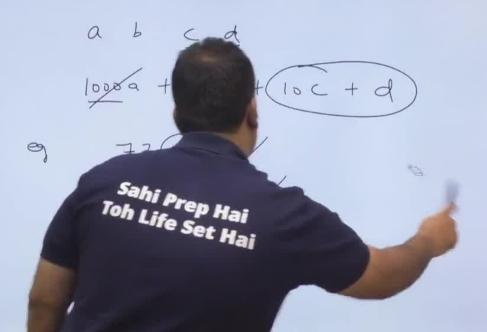
Dis Rule of 4



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Dis Rule of 4





### Divisibility Rule of 6

A number is divisible by 6, if it is divisible by 2 & 3 both.

Eg.: 342 is divisible by 2 as well as by 3, so this is also divisible by 6.

3142 is divisible by 2 but not by 3, so this number is not divisible by 6.

## Divisibility Rule of 8

A number is divisible by 8, if the number formed by the last three digits of the given number is divisible by 8.

**Eg.:** 95360 is divisible by 8, because the number formed by last three digits is 360 which is divisible by 8. But, 529418 is not divisible by 8, because the number formed by last three digits is 418, which is not divisible by 8.

## Divisibility Rule of 6

A number is divisible by 6, if it is divisible by 2 & 3 both.

Eg.: 342 is divisible by 2 as well as by 3, so this is also divisible by 3142 is divisible by 2 but not by 3, so the second not divisible by

## ₱ Divisibility Rule of 8

A number is divisible by 8, if the numb is divisible by 8.

Eg.: 95360 is divisible by 8, b divisible by 8, But, 5294 digits is 418, which is r s of the given number

Sahi Prep Hai mber formed by last three Toh Life Set Hai

342

## Divisibility Rule of 6

A number is divisible by 6, if it is divisible by 2 & 3 both.

Eg.: 342 is divisible by 2 as well as by 3, so this is also divisible 3142 is divisible by 2 but not by 3, so

# Divisibility Rule of 8

A number is divisible by 8, if the number is divisible by 8.

divisible by 8. But, 529 digits is 418, which i

y the last of the given number

e digits is 360 which is ober formed by last three



#### Divisibility Rule of 9

A number is divisible by 9, if the sum of its digits is divisible by 9.

Eg.: 60732 is divisible by 9, because sum of digits = (6+0+7+3+2) = 18, which is divisible by 9. But 68956 is not divisible by 9, because sum of digits = (6+8+9+5+6) = 34 which is not divisible by 9.

# Divisibility Rule of 1

A number is divisible if it ends on 0

Fg.: 95410, 10480

divisible by 10, while 96375 is not divisible by 10

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\* 2 2 0 0 0 0

gradeup Ream Dis Rule of 4 Jacob Pranter 1008a + 1005 + (10C+ All this car Slide

Divisibility Rule of 11

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6

(8)

(9)

8

Divisibility Rule of 11 Sahi Prep Hai Toh Life Set Hai gradeup Divisibility Rule of 11 (etcta) = dix by 11



8

#### Divisibility Rule of 11

A number is divisible by 11, if the difference of the sum of digits at odd places (starting from unit digits) and the sum of digits at even place is either 0 or a multiple of 11

Eg.: 14641 is divisible by 11 because (sum of the digits at odd place) - (sum of digits at even place)

$$(1+6+1) - (4+4) = 8 - 8 = 0$$

: 14641 is divisible by 11

2739 is also divisible by 11. Because (7+9) - (2+3) = 16 - 5 = 11 (So this number is divisible by 11)

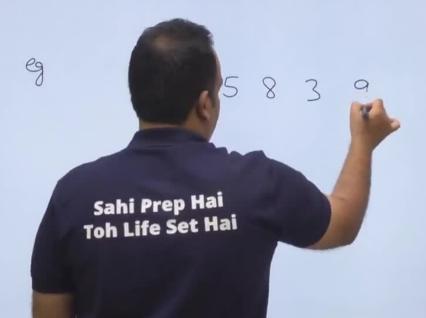


gradeup eg 8 Sahi Prep Hai Toh Life Set Hai Q [] (p)

(1)

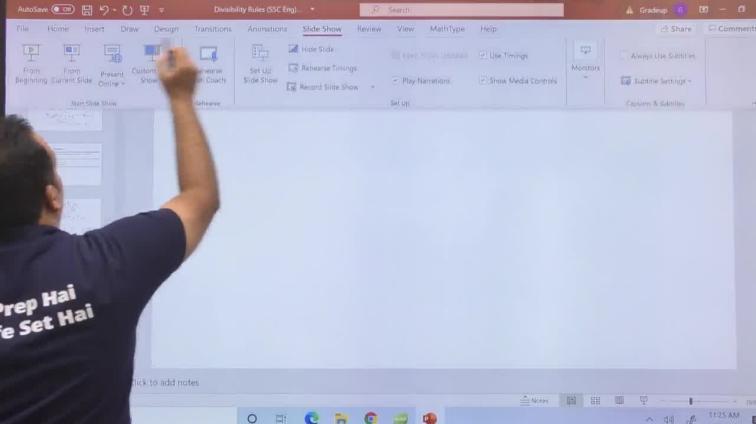
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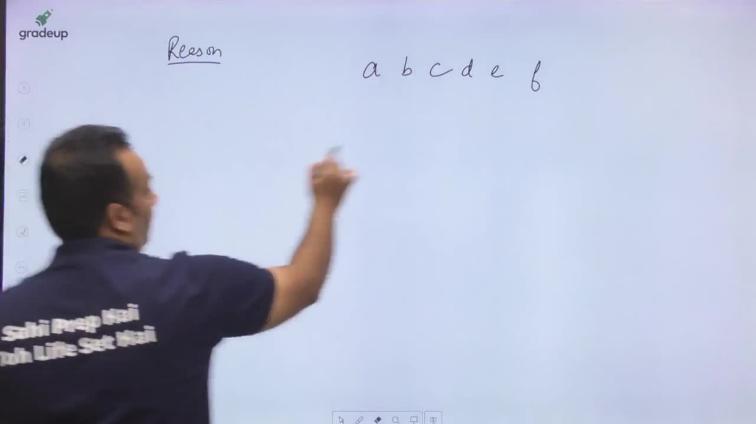
eg 59193728



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(3 and 4) 50th

#### Divisibility Rule of 12

A number is divisible by 12, if it is divisible by both 3 & 4

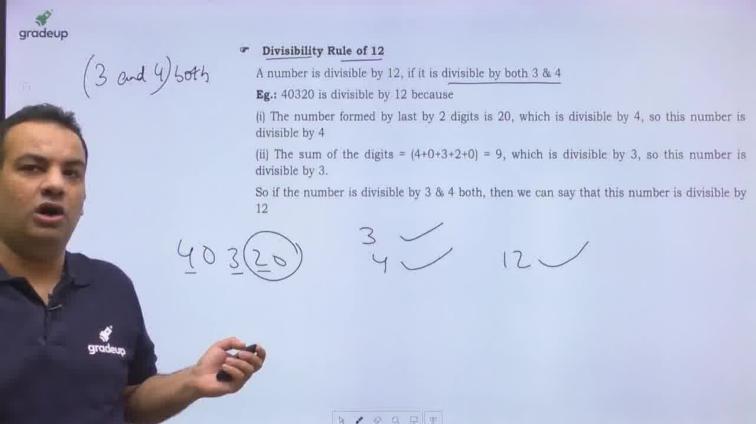
Eg.: 40320 is divisible by 12 because

(i) The number formed by last by 2 digits is 20, which is divisible by 4, so this number is divisible by

(ii) The gits = (4+0+3+2+0) = 9, which is divisible by 3, so this number is divisible

So if t below the by 3 & 4 both, then we can say that this number is divisible by 12

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gradeup 2 -> unit digit 0/2/4/6/8 3 -> Sum of digits should 8 Sahi Prep Hai Toh Life Set Hai

gradeup 2-) unit digit 0/2/4/6/8 3 -> Sum of digits should be div by 3 4 - No lorned by last ? digit Sahi Prep Hai Toh Life Set Hai

gradeup 2 -> unit digit 0/2/4/6/8 3 -> Sun of digits should be div by 3 4 - No formed by last ? digits should be div 8 Sahi Prep Hai Toh Life Set Hai

gradeup 2-) unit digit 0/2/4/6/8 3 -> Sun of digits should be div by 3 4 + No formed by last 2 digits should be divby 4 5 - Unit digit 0/5 6 -1 2 and 3 both 8 - No pointed by bot 3 digits 9 - sum of the digits -1 Unit digt 0 Sahi Prep Hai 10h Life Set Hai

gradeup 2-> unit digit 0/2/4/6/8 3 -> Sun of digits should be div by 3 4 + No formed by last 2 digits should be divby 4 5 - Unit digit 2 and at 3 digits - No born Sahi Prep Hai Toh Life Set Hai

Divisibility Rule of 7

Rule- I

To check whether a number is divisible by 7 or not we have to multiply the last digit by 2 8 then this value will be subtracted from the number formed by rest of the digits & this process is continued till you know that the resultant value is divisible by 7 or not.

Eg.: Check whether 939715 is divisible by 7.

Step

 $93971 - 5 \times 2 = 93961$ 

Stes

9396 - 1 × 2 = 394

Ste

 $939 - 4 \times 2$ 

Step

 $9.3 - 1 \times 2 =$ 

Step

9-1×2

Her

I will not

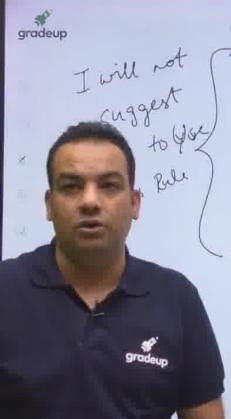
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you to you

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n in books but not to be used in exams. etter rule on next slide.



### Divisibility Rule of 7

#### Rule- I

To check whether a number is divisible by 7 or not we have to multiply the last digit by 2 8 then this value will be subtracted from the number formed by rest of the digits & this process is continued till you know that the resultant value is divisible by 7 or not.

Eg.: Check whether 939715 is divisible by 7.

Step 1	93971 <u>5</u>	$93971 - 5 \times 2 = 93961$
Step2	93961	9396 - 1 × 2 = 9394
Step 3	9394	$939 - 4 \times 2 = 931$
Step 4	931	93 - 1 × 2 = 91
Step 5	91	$9-1\times 2=7$
and the same of th	THE PARTY OF THE P	

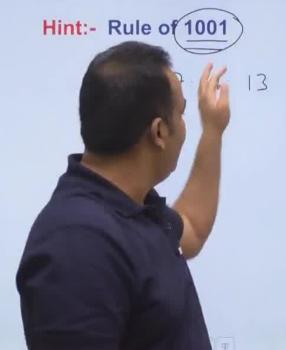
Hence it is divisible by 7

A common Rule given in books but not to be used in exams.

A better rule on next slide.



## A common divisibility rule of 7,11 & 13



gradeup eg 158382 8 382-158 Sahi Prep Hai Joh Life Set Haii Q [] #

gradeup eg 158382  $I - \overline{H} = 382 - 158$ (224) - din by 7

P 1 0 0 口 申

## Let's take an example 125370

Always start from unit digit and make group of 3 digits

Now | Ist group - IInd group | 370 - 125 = 245

Now divide 
$$\frac{245}{7}$$
 Rem = 0

So 125370 is divisible by 7



# Another Example 1435392

$$(392 + 1) - 435$$

$$393 - 435 = -42$$

divisible by 7
So, 1435392 is divisible by 7

gradeup 5852 847 8 Sahi Prep Hai Toh Life Set Hai · 0 0 1 9

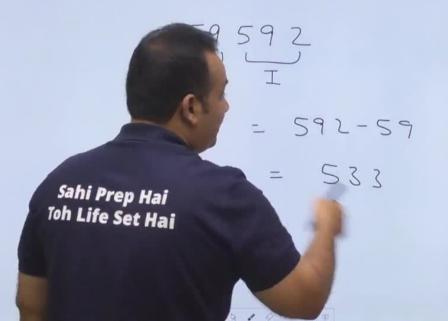
gradeup 5852 I = 847 div by 7 8

gradeup 5852 TI I 852-5 = 8 58366 B 2 0 0

gradeup 5852 ez TI I 852-5 div by 7 8 58 366

8

eg Check whether the given no in div by 13







$$N = \frac{1}{IV^{th}} \quad \frac{234}{III^{rd}} \quad \frac{567}{II^{nd}} \quad \frac{887}{I^{st}}$$

$$(I^{st} + III^{rd}) - (II^{nd} + IV^{th})$$
  
 $(887 + 234) - (567 + 1)$   
 $1121 - 568 = 553$   
 $R = 0$ 

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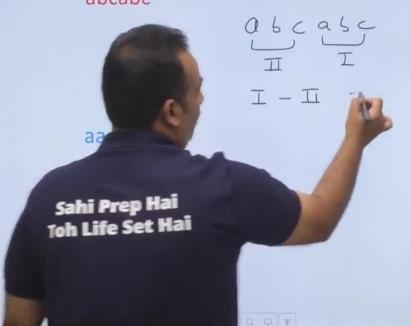
34567887 is divisible by 7.





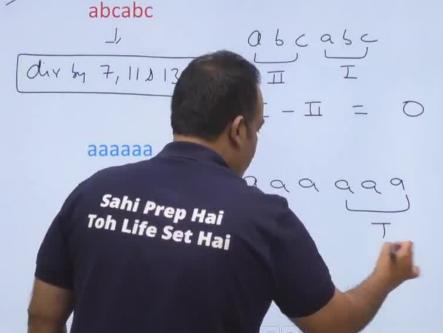
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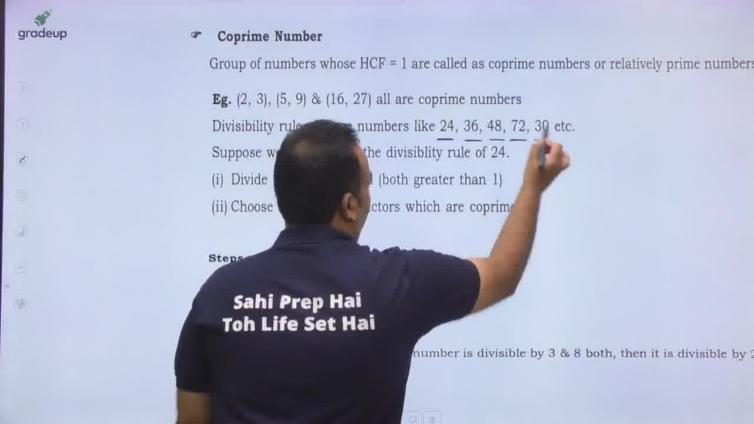
Points to remember because they are asked in Exams abcabc

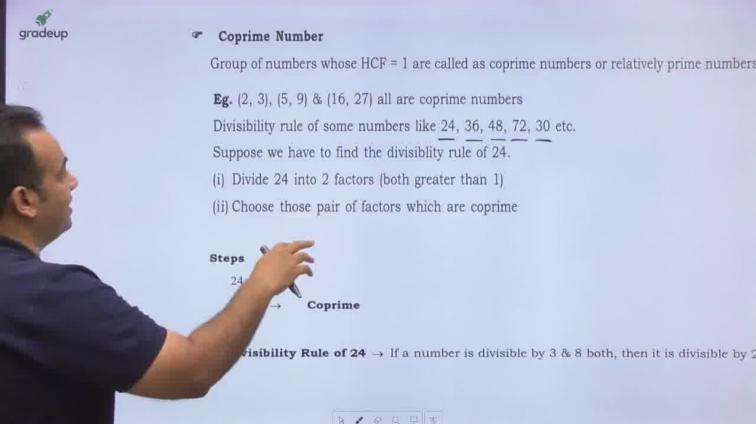


V my

Points to remember because they are asked in Exams







gradeup Divisibility Rule Sahi Prep Hai Toh Life Set Hai Q P B

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Divisibility Rule of 24



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Divisibility Rule of 24



Divisibility Rule of 24

Step 1 X Nz = 24 Sahi Prep Hai Ish Life Set Hai

(6)

(4

8

6

6

0

G

8

Divisibility Rule of 24

Step 1

X Nz

Sahi Prep Hai Toh Life Set Hai gradeup Divisibility Rule of 24 Step 1  $\frac{N_1}{N_2} \times \frac{N_2}{N_2} = 24 \left[\begin{array}{c} N_1 & 71 \\ N_2 & 71 \end{array}\right]$ Step 2 -> Coping B / O Q D B

gradeup Fird Rules of 36, 48, 72, 20, 30 361 8 Sahi Prep Hai (3) Toh Life Set Hai R P O O D D

gradeup Find Rules of 36, 8 Sahi Prep Hai Toh Life Set Hai

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Rule of 36  $\rightarrow$  4 &9

Rule of 48  $\rightarrow$  3 & 16

Rule of 80  $\rightarrow$  5 & 16

Rule of 72  $\rightarrow$  8 & 9

Rule of 30  $\rightarrow$  2 & 15

and 3 & 10

and 5 & 6

If a numer is divisible by 2, 3 & 5 then it is divisible by 30

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Rule of 36  $\rightarrow$  4 &9

Rule of 48  $\rightarrow$  3 & 16

Rule of 80  $\rightarrow$  5 & 16

Rule of 72  $\rightarrow$  8

Rule of 30  $\rightarrow$ 

If a number is divisi

Sahi Prep Hai Toh Life Set Hai s divisible by 30

30

6

Rule of 36 → 4 &9

Rule of 48 → 3 & 16

Rule of 80 → 5 & 16

Rule of 72 → 8

Rule of 30 →

If a number is divisi

3.85 then if divisible by 30

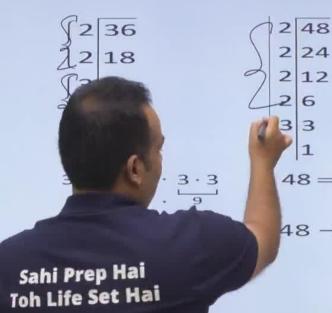
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2.15

2.10

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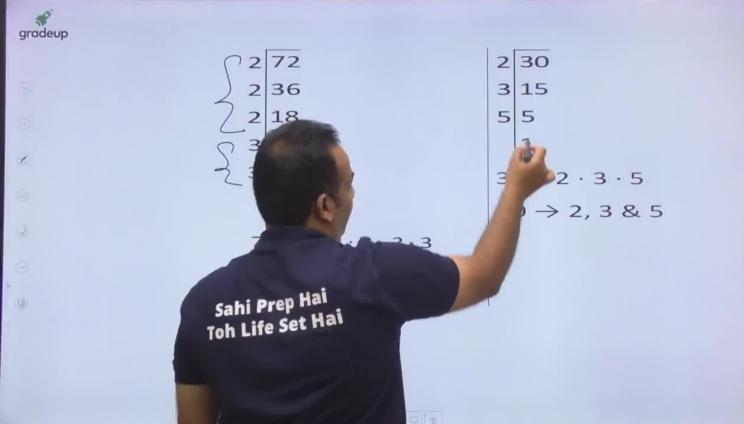


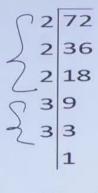
$$36 = \underbrace{2 \cdot 2 \cdot 3 \cdot 3}_{4} \cdot \underbrace{3 \cdot 3}_{9}$$

$$36 \rightarrow 4 \& 9$$

$$48 = \underbrace{2 \cdot 2 \cdot 2 \cdot 2}_{16} \cdot \underbrace{3}_{3}$$

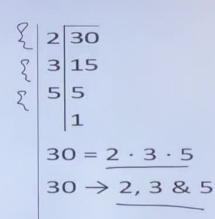
$$48 \rightarrow 16 \& 3$$

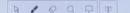




$$72 = \underbrace{2 \cdot 2 \cdot 2}_{8} \cdot \underbrace{3 \cdot 3}_{9}$$

$$72 \rightarrow 8 \& 9$$







8

### Divisibility Rules for Numbers of the form 2" or 5"

If a number is of the form  $2^n$  or  $5^n$  then to check whether the number are divisible by  $2^n$  or  $5^n$  then the last n digits of that number  $3^n$  be checked

### Eg.:

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$$2 = 2^{1} \rightarrow last 1 digit$$

$$4 = 2^2 \rightarrow \text{No formed by}$$
 digits

$$8 = 2^3 \rightarrow \text{No formed b}$$
 8 digits.

$$16 = 2^4 \rightarrow \text{No former}$$
 st 4 digits.

$$32 = 2^5 \rightarrow \text{No for ast 5 digits.}$$

med by last 2 digits
formed by last 3 digits

gradeup Dis Rule of 2 = and Edigits Cest 3 digits cost raights to the control of the c B O O D D

gradeup Dis Rule of Z = Z Sahi Prep Hai Toh Life Set Hai

(6)

gradeup Dis Rule of 2 = 8 Cast 2a (ax Sahi Prep Hai Toh Life Set Hai

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### Divisibility Rules for Numbers of the form 2" or 5"

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#### Eg.:

$$2 = 2^1 \rightarrow last 1 digit$$

$$4 = 2^2 \rightarrow \text{No formed by last 2 digits}$$

$$8 = 2^3 \rightarrow$$
 No formed by last 3 digits.

$$16 = 2^4 \rightarrow \text{No formed by last 4 digits.}$$

$$32 = 2^5 \rightarrow \text{No formed by last 5 digits.}$$

$$25 = 5^2 \rightarrow \text{No formed by last 2 digits}$$

$$125 = 5^3 \rightarrow \text{No formed by last 3 digits}$$

1

### Divisibility Rules for Numbers of the form 2° or 5°

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### Eg.:

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$$8 = 2^3 \rightarrow \text{No formed by last 3 digits.}$$

$$16 = 2^4 \rightarrow \text{No formed by last 4 digits.}$$

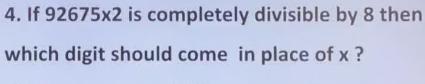
$$32 = 2^5 \rightarrow \text{No formed by last 5 digits.}$$

$$5 = 5^{\circ} \rightarrow \text{Last 1 digit}$$

$$25 = 5^2 \rightarrow \text{No formed by last 2 digits}$$

$$125 = 5^3 \rightarrow \text{No formed by last 3 digits}$$



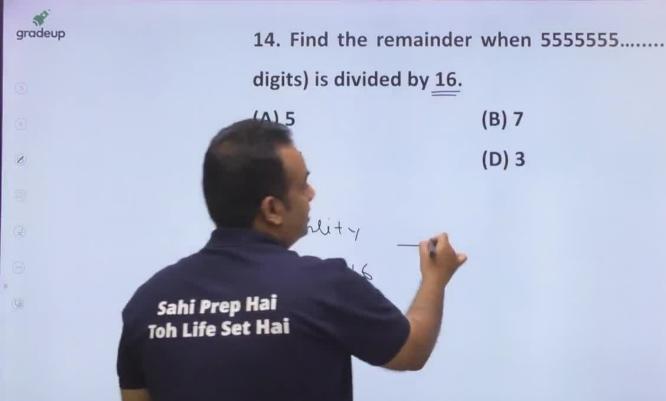


(A) 8

(B) 7

(C) 6

(D) 5



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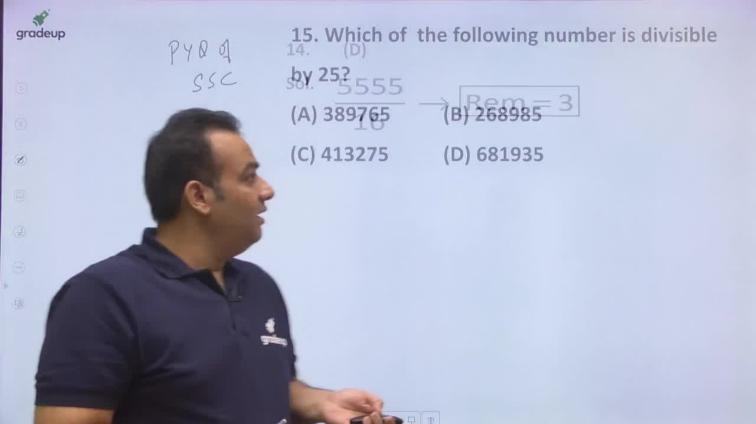
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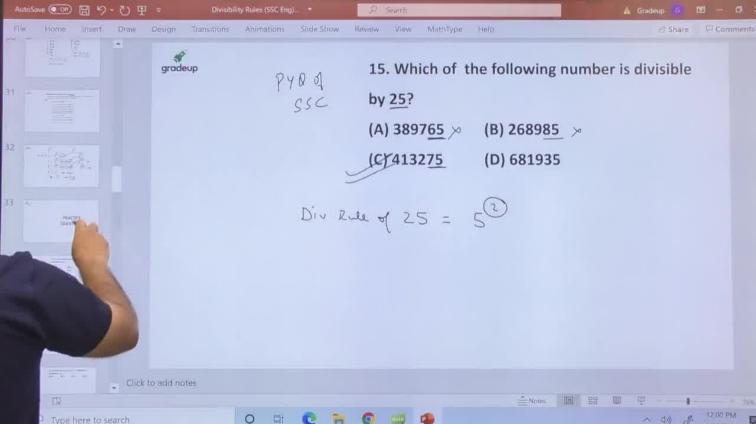
14. Find the remainder when 5555555.....(100 digits) is divided by 16.

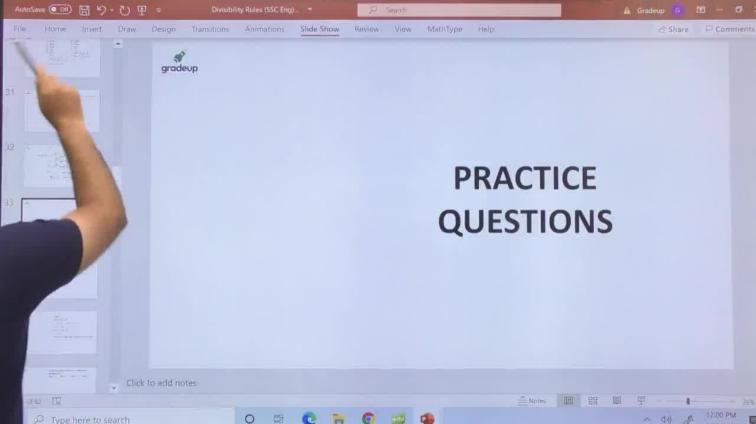
(A) 5 (B) 7 (C) 11(D) 3 Divisible 5555

gradeup 14. Find the remainder when 5555555... (100 digits) is divided by 16. (A) 5 (B)7(C) 11(D) 3 Divisible 5555 Sahi Prep Hai Toh Life Set Hai 13%



gradeup 15. Which of the following number is divisible by 25? 1 389765 × (B) 268985 > 13275 (D) 681935 6 Div





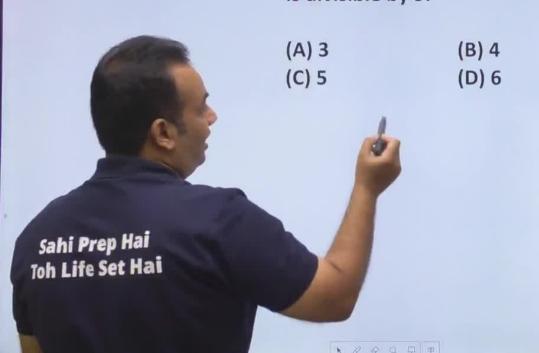




# PRACTICE QUESTIONS

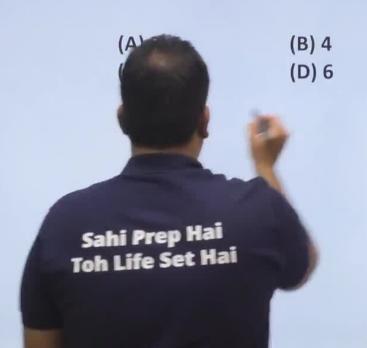


1. Find the smallest value of x such that 78326x42 is divisible by 9.





1. Find the smallest value of x such that 78326x42 is divisible by 9.



### 1. (B)

Sol. 78326 × 42

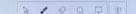
$$7 + 8 + 3 + 2 + 6 + x + 4 + 2$$

$$32 + x = 9 \text{ m}$$

$$32 + x \rightarrow 36, 45, \dots$$

$$x = 4, 13, \dots$$

Since x is a single digit number so it has to be 4.





(30)

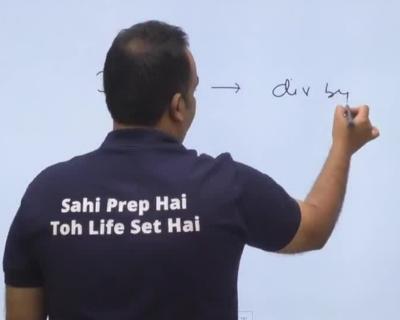
2. For how many values of x , 78326x42 is divisible by 3 ?

(A) 2

(B) 3

(C)4

(D) 5



- 2. For how many values of x, 78326x42 is divisible by 3?

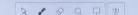


(C) 4

(D) 5

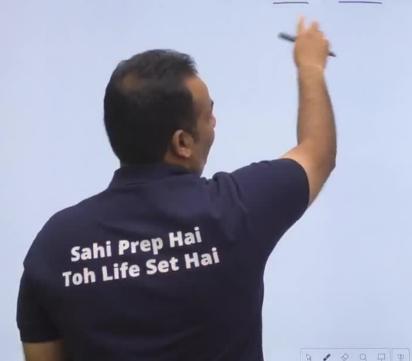




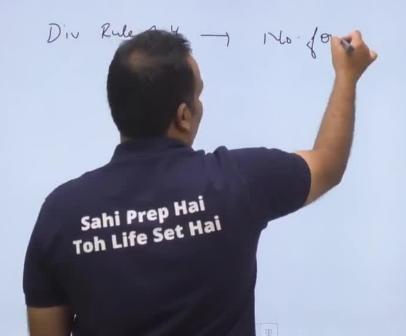




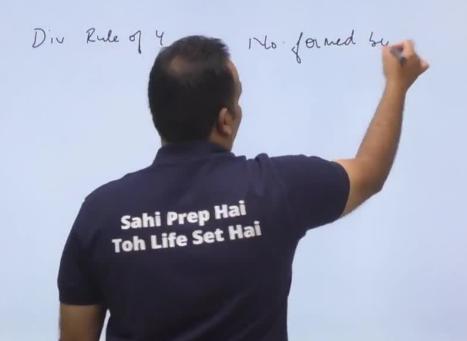
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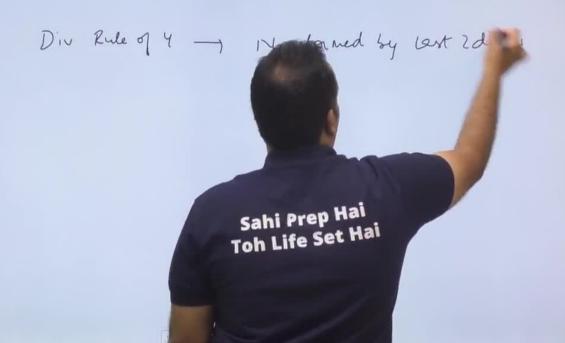


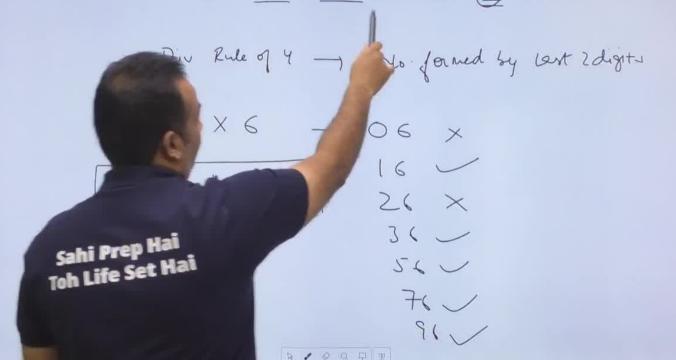




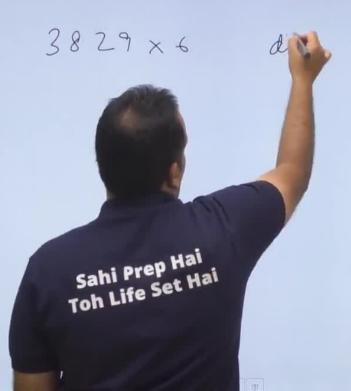


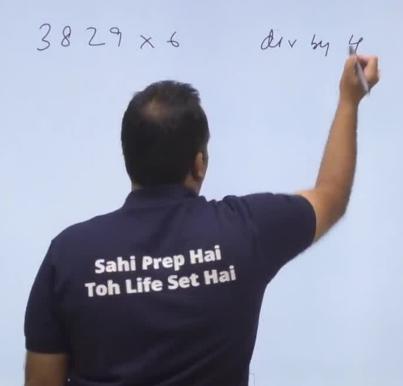
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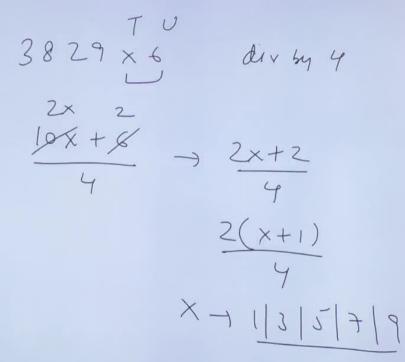




gradeup 3829 x 6 div by 4 Sahi Prep Hai Toh Life Set Hai

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(13)



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gradeup 6+

4. If 92675x2 is completely divisible by 8 then which digit should come in place of x?

(A) 8

(B) 7

(C) 6

B O Q II I

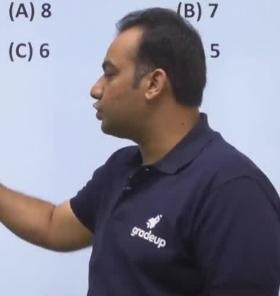
(D) 5

(13)

4. If 92675x2 is completely divisible by 8 then which digit should come in place of x?

S02+10x

(C) 6



8

4. If 92675x2 is completely divisible by 8 then

which digit should come in place of x?

(A) 8

(B)7

(D) 5

502+10x

(C) 6

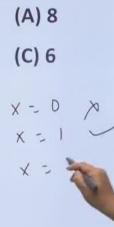
6+2x

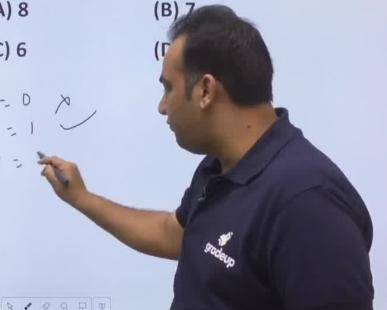
E / O O

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$$\frac{6+2x}{8}$$

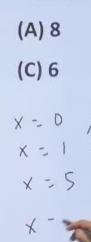
4. If 92675x2 is completely divisible by 8 then which digit should come in place of x?

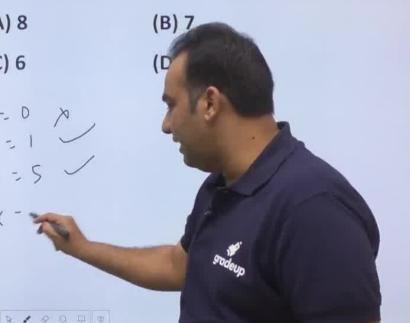




$$\frac{6+2x}{8}$$

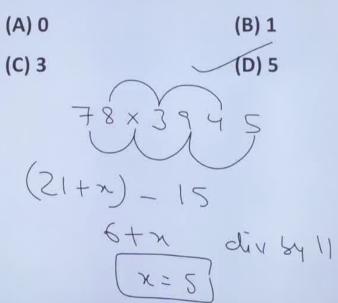
4. If 92675x2 is completely divisible by 8 then which digit should come in place of x?







5. If 78x3945 is completely divisible by 11 then which digit should come in place of x?







5. (D)

Sol.

$$(5+9+*+7)-(4+3+8)$$

$$(21 + *) - (15)$$

$$6 + * = 0, 11, 22$$



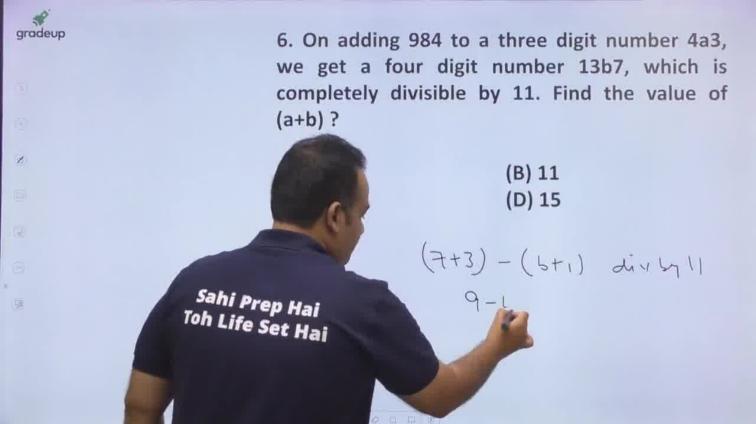
6. On adding 984 to a three digit number 4a3, we get a four digit number 13b7, which is completely divisible by 11. Find the value of (a+b)?

(A) 10

(B) 11

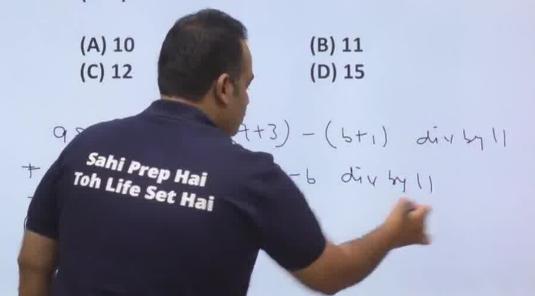
(C) 12

(D) 15



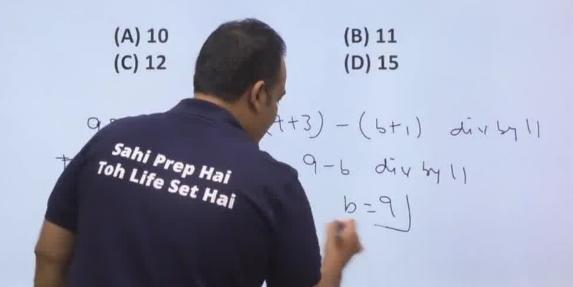
gradeup

6. On adding 984 to a three digit number 4a3, we get a four digit number 13b7, which is completely divisible by 11. Find the value of (a+b)?



gradeup

6. On adding 984 to a three digit number 4a3, we get a four digit number 13b7, which is completely divisible by 11. Find the value of (a+b)?







7. Both the end digits of a 99 digit number N are 2. N is divisible by 11, then all the middle digits are:

(B) 2

(A) 1

(C) 3 (D) 4

gradeup 6. On adding 984 to a three digit number 4a3, we get a four digit number 13b7, which is completely divisible by 11. Find the value of 0=1 (a+b)? (B) 11 (D) 15 (7+3) - (6+1) dir by 11 9-6 24411

gradeup Ans. (d) Sahi Prep Hai Toh Life Set Hai e o d m

8

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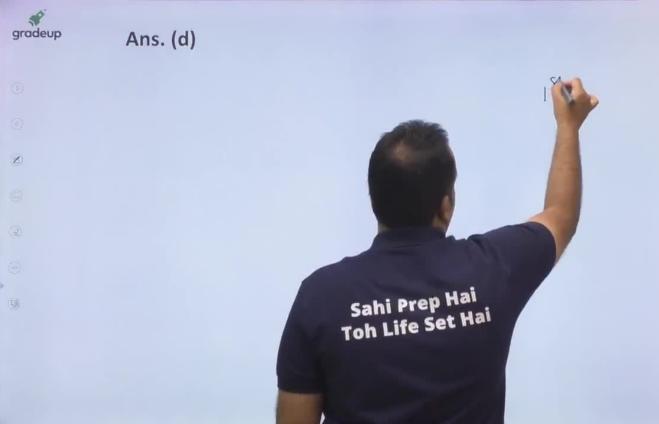
gradeup (9)

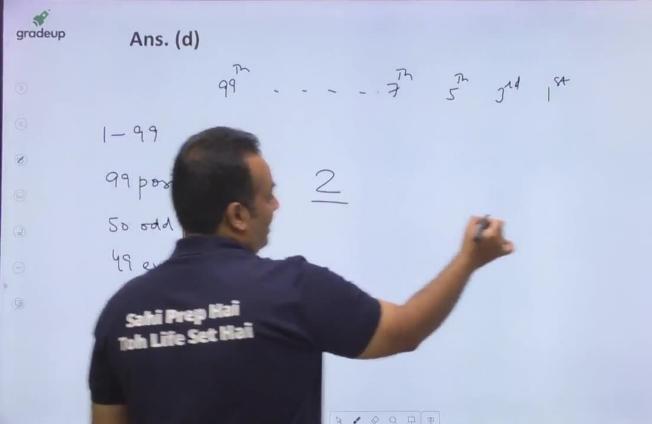
Ans. (d) Sahi Prep Hai ish Life Set Haii

gradeup Ans. (d) 1 st digit-8 Sahi Prep Hai Toh Life Set Hai (38)

gradeup Ans. (d) 1 8 digi /-

18

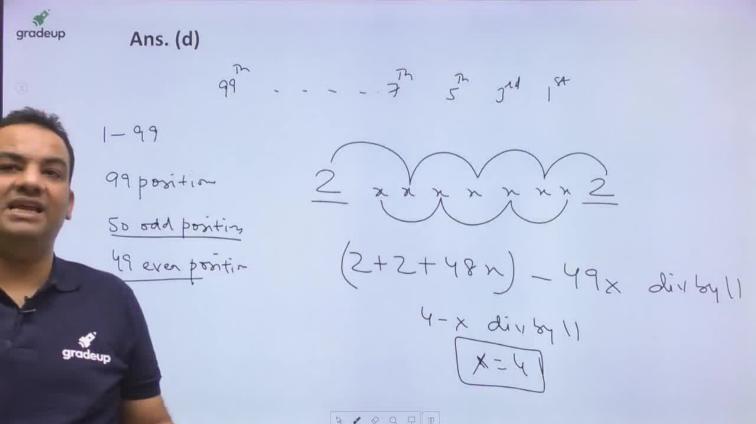


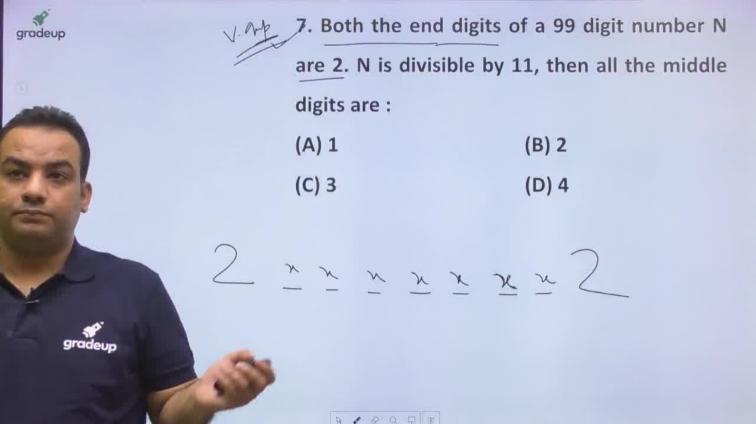


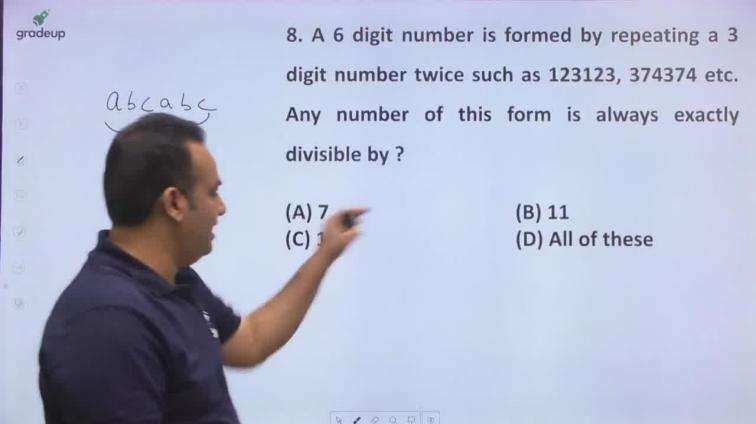
gradeup Ans. (d) --- 7 5 Jul 184 So odd positing 49 even por Sahi Prep Hai Toh Life Set Hai

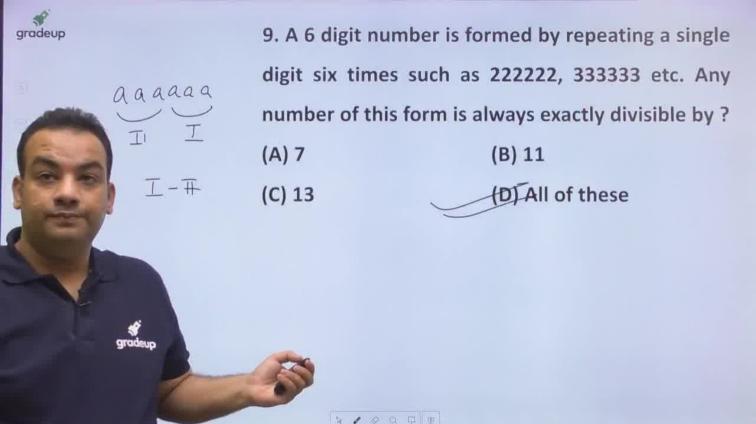
gradeup Ans. (d) --- 7 5 3rd 1st So odd pont (3) · O Q II W

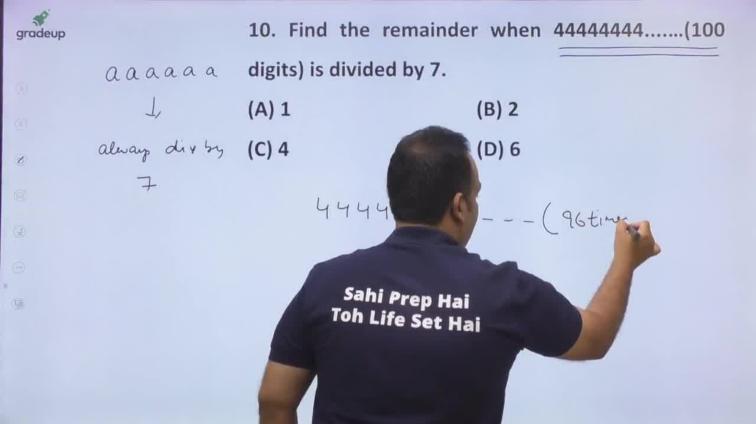
gradeup Ans. (d) 99 position So odd positing 49 ever position Sahi Prep Hai Toh Life Set Hai (5)







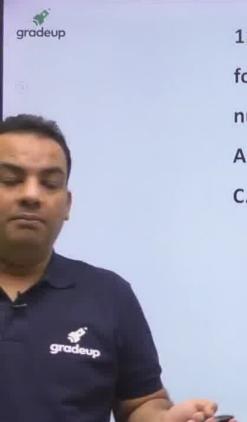




10. Find the remainder when 44444444..... (100 gradeup digits) is divided by 7. aaaaaa (A) 1 (B) 2 always div by (D) 6 44444 --- - (96times) Sahi Prep Hai 瑟 Toh Life Set Hai O 0 1 1

10. Find the remainder when 44444444..... gradeup aaaaa digits) is divided by 7. (A) 1 (B) 2 always div by (C) 4 (D) 6 - (96times) Ron = 0 Sahi Prep Hai Toh Life Set Hai

10. Find the remainder when 44444444..... gradeup aaaaa digits) is divided by 7. (A) 1 (B)2lway div by (C) 4 444444 ---- (96times)
Ren = 0 \$ 0 0 II W



11. A 2 digit number is written two times together to form a 4 digit number such as 2525, 3232 etc. The number of this form is always divisible by ?

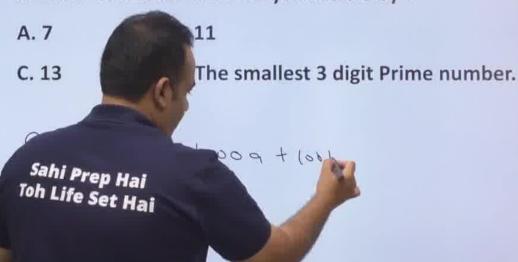
A. 7 B. 11

b / 0 0 EI m

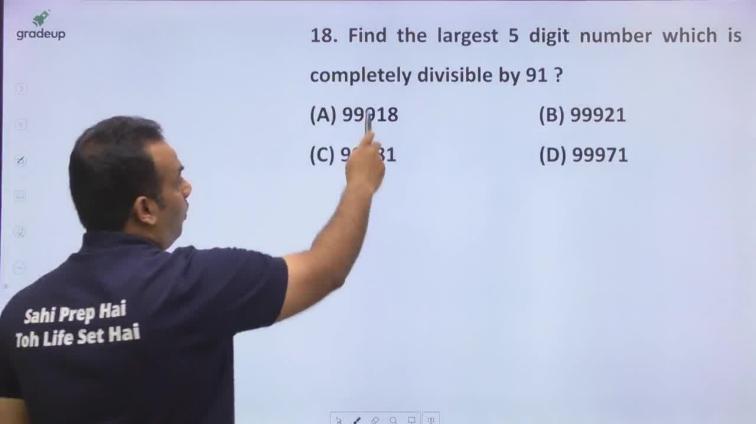
C. 13 D. The smallest 3 digit Prime number.

gradeup

11. A 2 digit number is written two times together to form a 4 digit number such as 2525, 3232 etc. The number of this form is always divisible by ?



gradeup 11. A 2 digit number is written two times together to form a 4 digit number such as 2525, 3232 etc. The number of this form is always divisible by? A. 7 C. 13 The smallest 3 digit Prime number. 10009 + 1006 + 109 + 5 Sahi Prep Hai Toh Life Set Hai

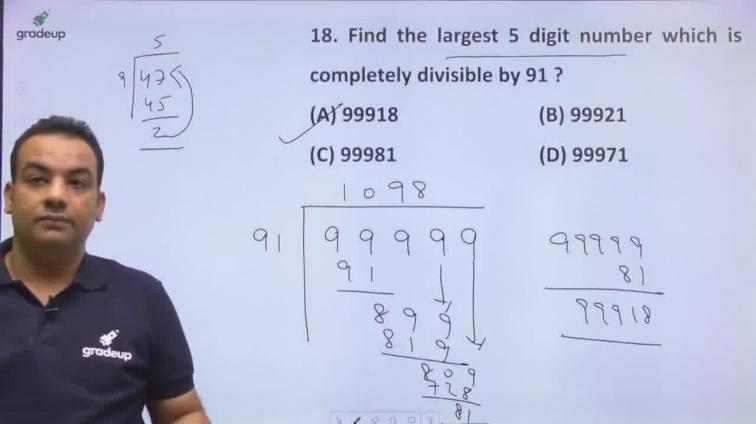


gradeup

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18. Find the largest 5 digit number which is completely divisible by 91? (A) 99918 (B) 99921 (C) 99981 (D) 99971 Sahi Prep Hai Toh Life Set Hai



gradeup 19. Find the smallest 6 digit number 900 which is completely divisible by 111? (A) 111111 (B) 110011 (e) 100011 (D) 999712 100000+11 1100011

## 20. How many five-digit numbers of the

form XXYXX is/are divisible by 33?

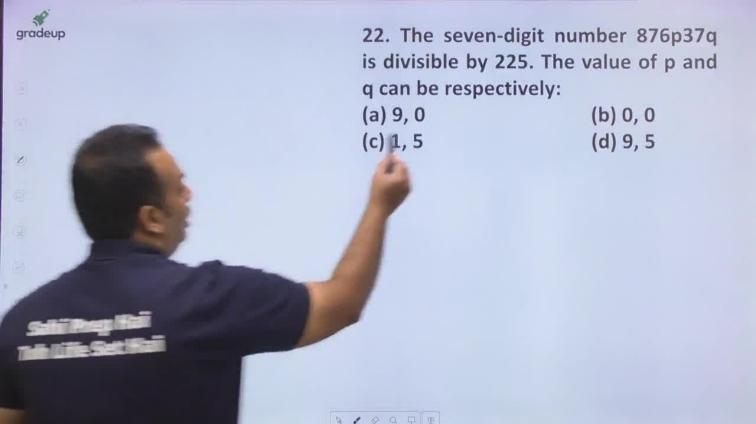
(a) 1

(b) 3

(c) 5

D O O D D

(d) Infinite

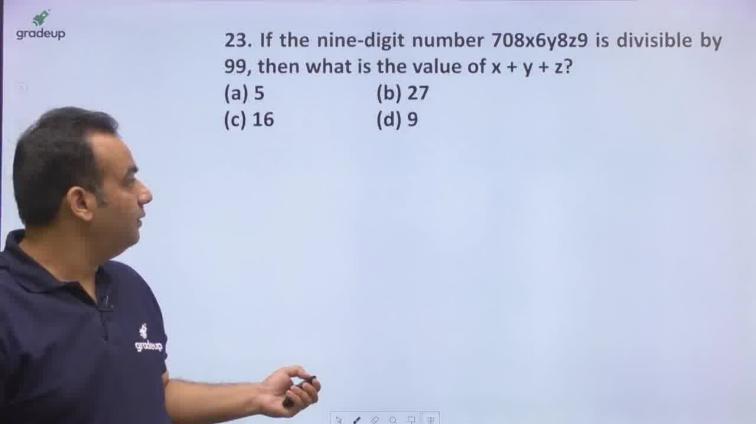


gradeup 22. The seven-digit number 876p37q Divinishity Rule of is divisible by 225. The value of p and 225 g can be respectively: (a) 9, 0 (b) 0, 0(c) 1, 5(d) 9, 5 Sahi Prep Hai Toh Life Set Hai

O 0 11 10

gradeup 22. The seven-digit number 876p37q Divinishity Rule of is divisible by 225. The value of p and 225 q can be respectively: (a) 9, 0 (b) 0, 0(c) 1, 5 (d) 9, 5 Sahi Prep Hai Toh Life Set Hai

gradeup 22. The seven-digit number 876p37q Divinishity Rule of is divisible by 225. The value of p and 225 q can be respectively: (a) 9, 0 (b) 0, 0(c) 1,5 (d) 9, 5 Sahi Prep Hai Toh Life Set Hai 5 / 0 0 0 0



24. If the 6-digit numbers x35624 and 1257y4 are divisible by 11 and 72, gradeup respectively, then what is the value of X35624 (5x - 2y)? (a) 12 (b) 10 c) 13 (d) 14 125744 Sahi Prep Hai Toh Life Set Hai

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X3562 4

24. If the 6-digit numbers x35624 and 1257y4 are divisible by 11 and 72, respectively, then what is the value of (5x - 2y)?

(a) 12

(c) 13

(b) 10

(d) 14

873

Sahi Prep Hai Toh Life Set Hai

24. If the 6-digit numbers x35624 and gradeup 1257y4 are divisible by 11 and 72, respectively, then what is the value of X35624 (5x - 2y)? (b) 10 (d) 14 13-(7+x) 6 - x 125747 (883) Sahi Prep Hai Toh Life Set Hai

24. If the 6-digit numbers x35624 and 1257y4 are divisible by 11 and 72, respectively, then what is the value of (5x - 2y)?

X35624

13-(7+x)

(a) 12

(b) 10

(c)

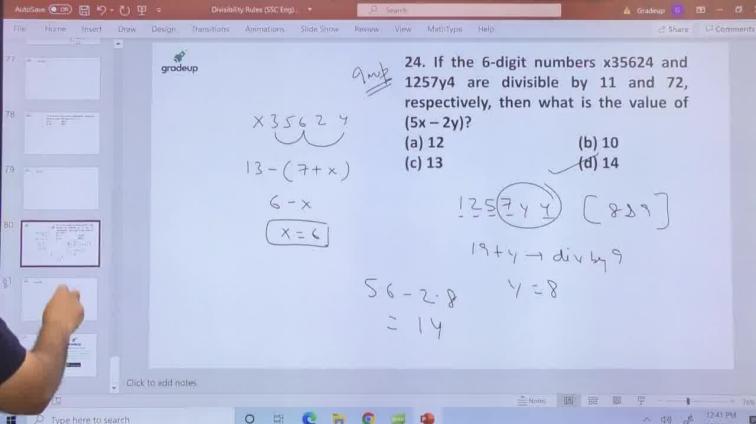
(d) 14

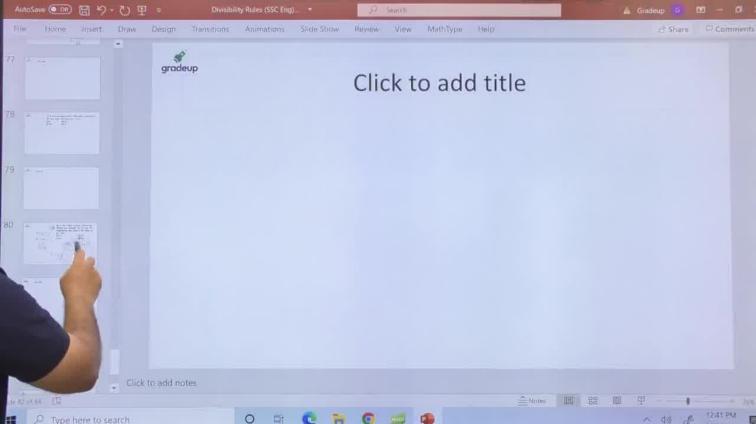
6 - x

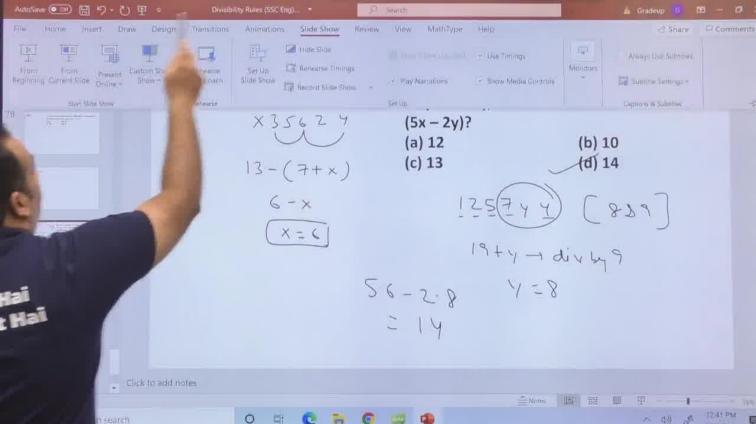
5747 (829)

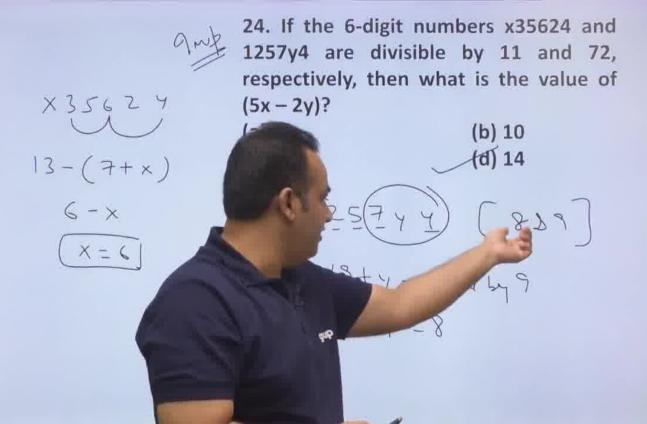
Sahi Prep Hai Toh Life Set Hai

24. If the 6-digit numbers x35624 and 1257y4 are divisible by 11 and 72, gradeup respectively, then what is the value of X35624 (5x - 2y)? (a) 12 (b) 10 tal 14 (c) 1313 - (7 + x)Microsoft PowerPoint 6 - x Water to keep your ask associations? (7 4 4) 19+4 - diy by 9 5-6-5-8 











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Level of our classes IT







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