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Sahi Prep Hai Toh Life Set Hai
Doubt Session

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INSTRUCTIONS FOR ATTACHING DOUBTS FOR FURTHER DOUBT SESSION

- If a doubt is not attached properly, it will not taken in the class.
- None of the question which is discussed in class will be taken in doubt session, if you haven't revised the class.
- Without options and without mentioning which option is correct, no doubts will be entertained.
- Maximum numbers of doubts, a student can ask in doubt session is 5.
- Please send all your doubts atleast 24 hours before Doubt Class.

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Find the number of zeroes.

Misprint Q. $1\times3\times4\times5\times6\times.....\times999\times128$

Please check the

$1\cdot3\cdot5\cdot7\cdot---\cdot999\times128$

7 zeros

2^7

Ritik Gupta

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$\frac{10^{\text{any natural no}}}{6}$ Rem = 4

$\frac{4+4+4+4}{6}$

$\frac{16}{6}$ R = 4

Q.5

Find the remainder of:

$$\frac{10^{5^7}+10^{17^{18}}+10^{35!}+10^{29}}{6}$$

A 1

B 4

SKIPPED

C 0

D 5

Rohit

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If you have more Doubts

* GRADE UP APP

* Telegram Group

Quant solution

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Find HCF of $3^{3^{333}}+1$ & $3^{3^{334}}+1$

Dm

Ebin Siby

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The number of proper divisors of $50 \times 60 \times 70$ is:

- [x] 98
- [ ] 89
- [ ] 90
- [x] 100

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The number of proper divisors of $50 \times 60 \times 70$ is:

- [x] 98
- [ ] 89
- [ ] 90
- [x] 100

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$20x+4$

$18x+4$

multiple of 4

The least number which when divided by 16, 18, 20 and 25 leaves 4 as remainder in each case but when divided by 7 leaves no remainder is

- ~~17004~~
- ~~18000~~
- ~~18002~~
- 18004

Kajal

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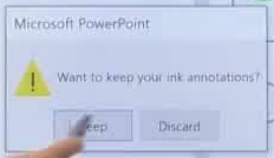
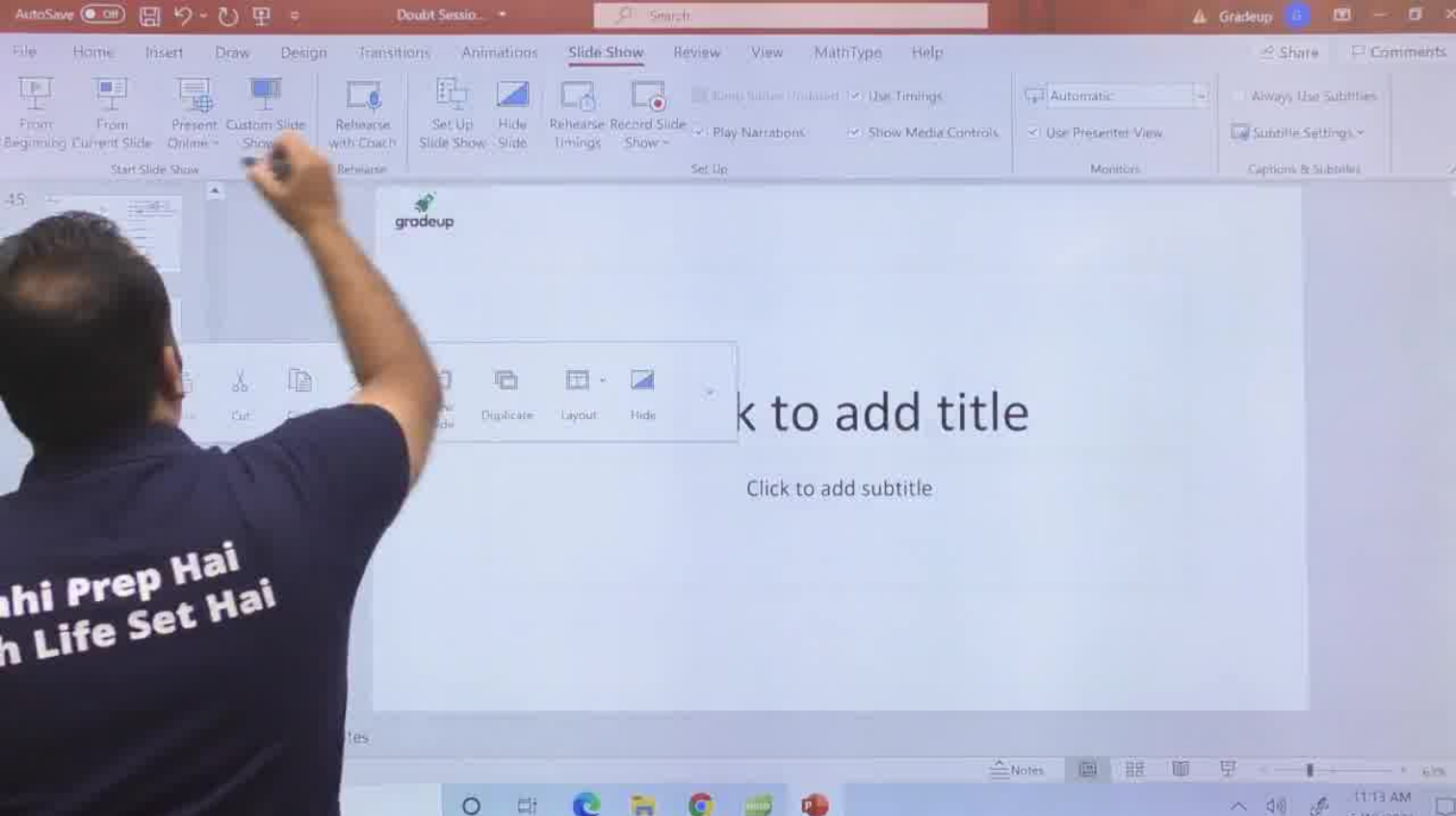
$26.\overline{565} \times 121 = x$, find the value of x.

- $3224.\overline{4}$
- $3214.\overline{4}$
- $3266.\overline{6}$
- None of these.

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Rational numbers are eith

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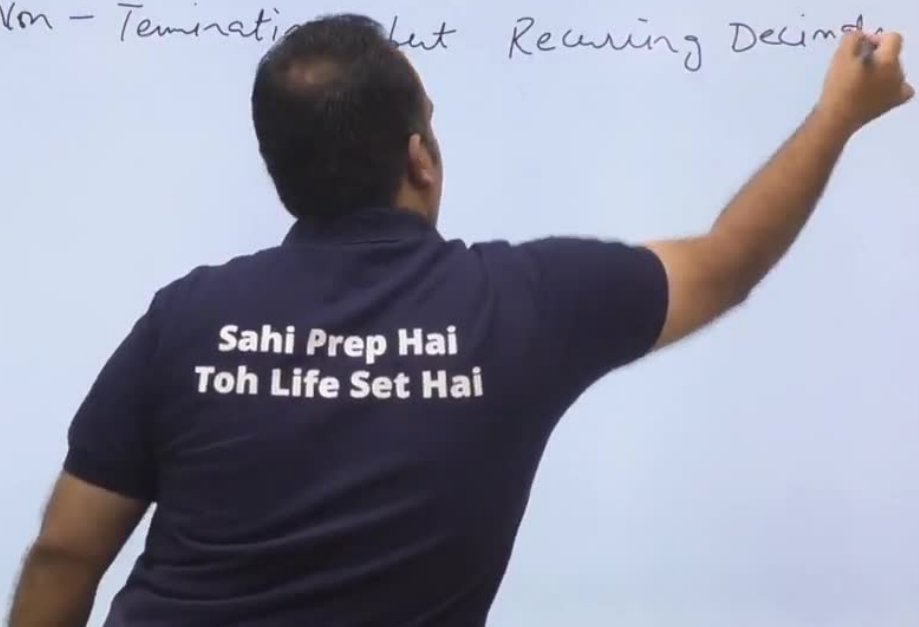
Rational numbers are either Terminating

or Non-Terminating but Recurring Decimals



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Rational numbers are either Terminating

or Non-Terminating but Recurring Decimals

Rational — $\in$ integers

$\in$ integers $q \neq$

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$X = 0.234343434\ldots$

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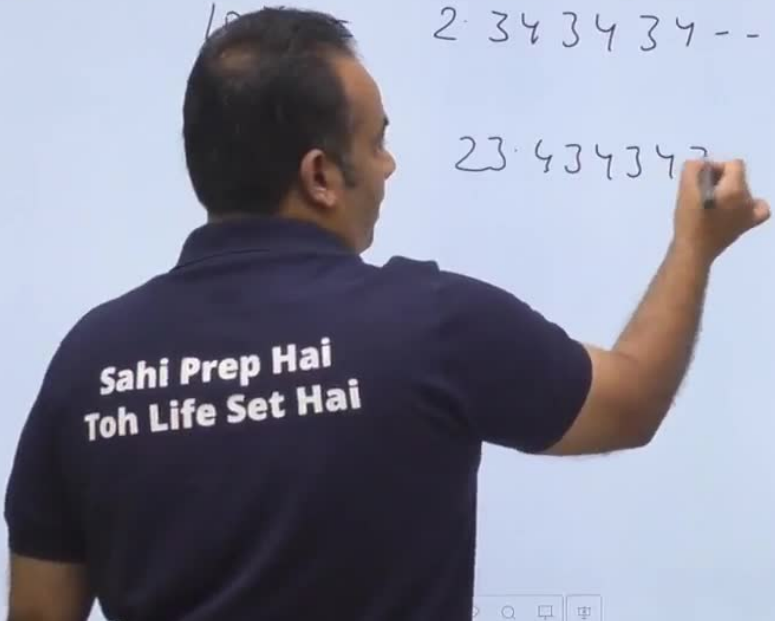
$X = 0.234343434\ldots\ldots$ — (1)

$2.343434\ldots\ldots$ — (2)

$23.434343\ldots$



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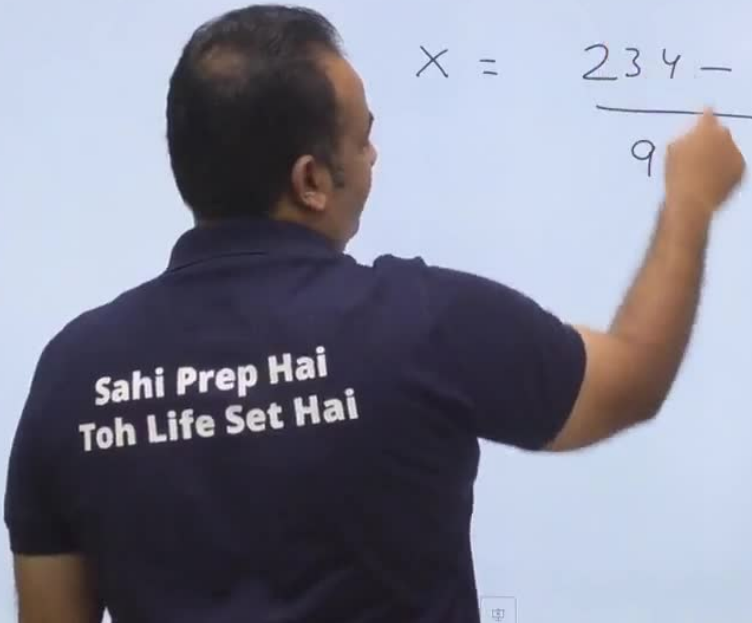
Short cut

$$X = 0.23\overline{4}$$

$$X = \frac{234 - 2}{9} = \frac{232}{990}$$



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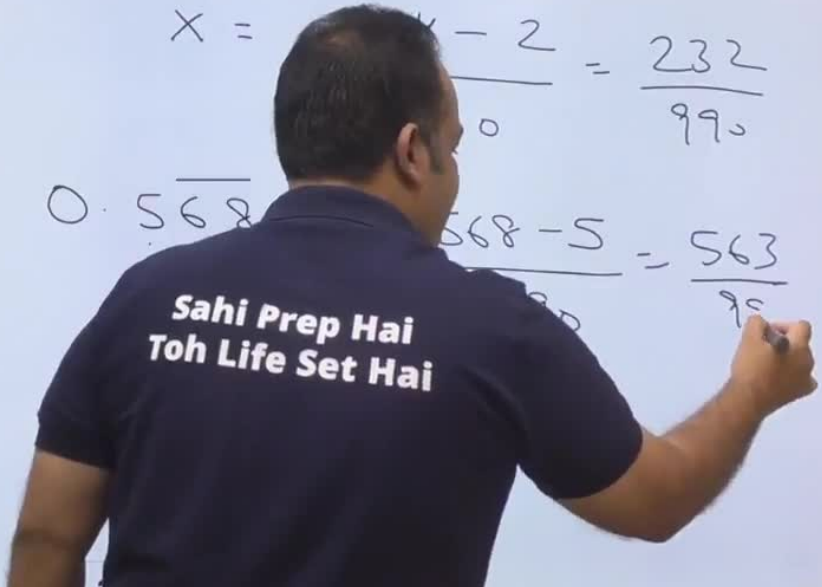
Short cut

$X = 0.23\overline{4}$

$X = \frac{234 - 2}{990} = \frac{232}{990}$

$X = 0.5\overline{68}$

$\frac{568 - 5}{990} = \frac{563}{99}$



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Shortcut

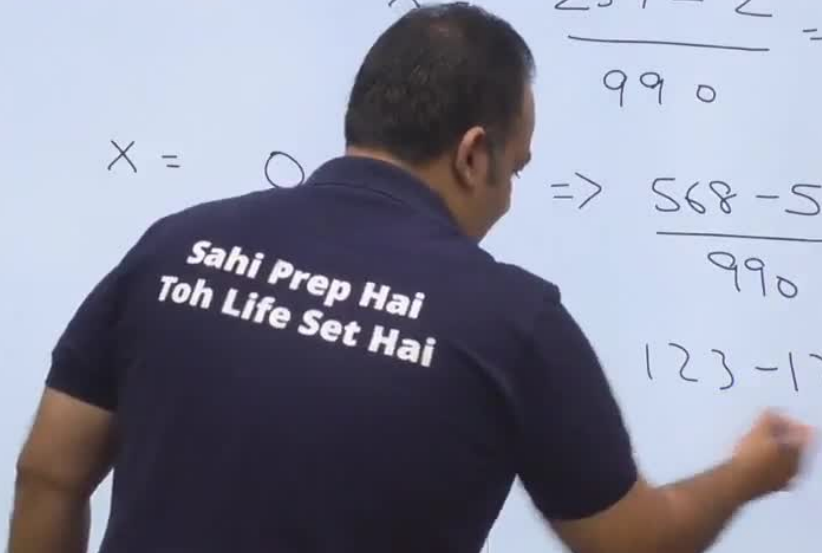
$X = 0.23\overline{4}$

$X = \frac{234-2}{990} = \frac{232}{990}$

$X = 0$

$\Rightarrow \frac{568-5}{990} = \frac{563}{990}$

$123-12$



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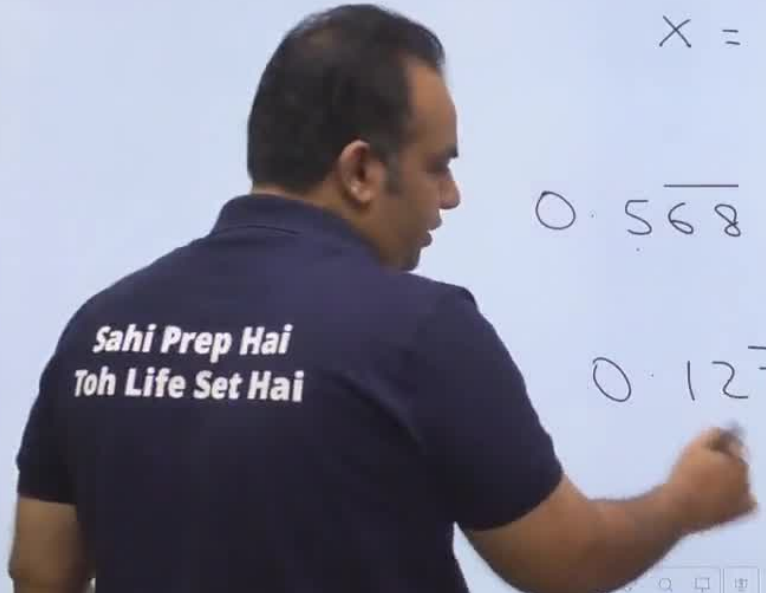
Short cut

$X = 0.23\overline{4}$

$X = \frac{234-2}{990} = \frac{232}{990}$

$0.5\overline{68} \Rightarrow \frac{568-5}{990} = \frac{563}{990}$

$0.12\overline{3} = \frac{123-12}{9}$



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Short cut

$X = 0.23\overline{4}$

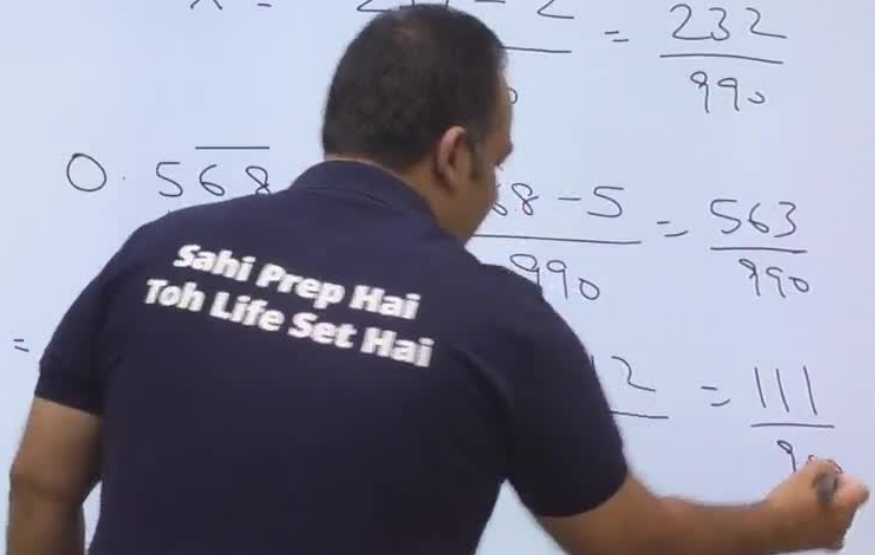
$X = \frac{234 - 2}{990} = \frac{232}{990}$

$X = 0.56\overline{8}$

$\frac{568 - 5}{990} = \frac{563}{990}$

$Y =$

$= \frac{111}{9}$



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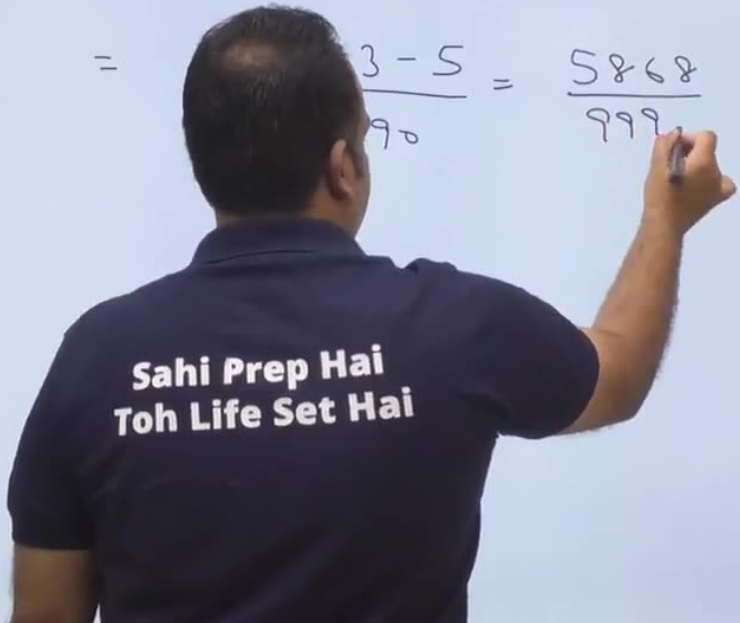
$$X = 0.\overline{5873}$$

$$= \frac{3-5}{90} = \frac{5868}{999}$$



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$X = 0.\overline{5873}$

$= \frac{5873-5}{9990} = \frac{5868}{9990}$

$X = a.b\overline{cd}$

$= a + \frac{(bcd-b)}{990}$

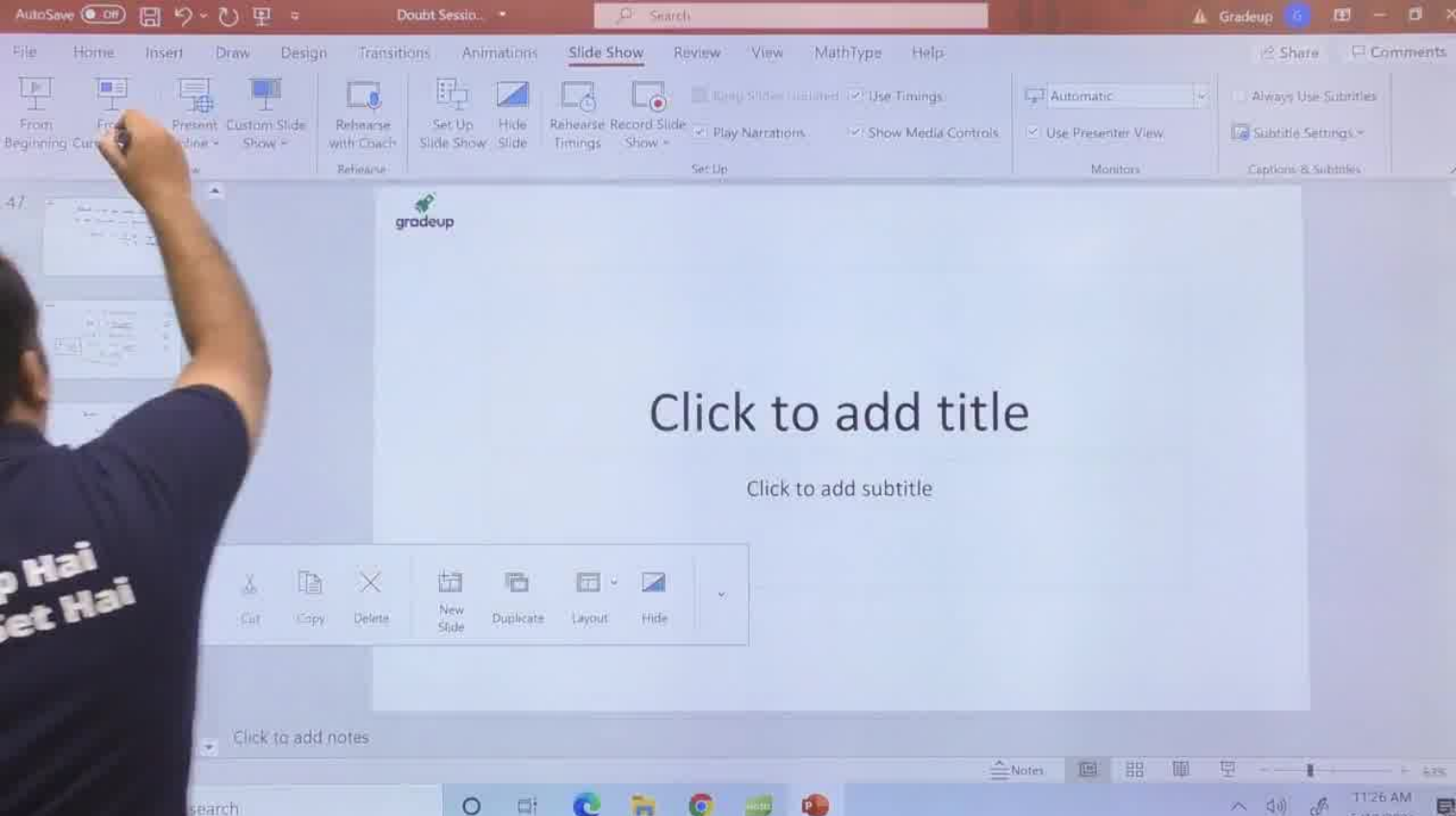
$= \frac{990a+bcd-b}{990}$

$X = \frac{1000a-10a+bcd-b}{990}$

$= \frac{abcd-(10a+b)}{990}$

$\frac{bcd-a}{990}$

Hai
Hai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$26.5\overline{65} \times 121 = x$, find the value of x.

- $3224.\overline{4}$
- $3214.\overline{4}$
- $3266.\overline{6}$
- None of these.

$$\frac{26565-265}{990} \times 121$$

$$\frac{26300}{990} \times \frac{11}{121}$$

$$\frac{28930}{9} = 3214\frac{4}{9}$$

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eg $4.3\overline{28}$

$= \dfrac{4328 - 43}{990}$

$= \dfrac{4285}{990}$ ✓

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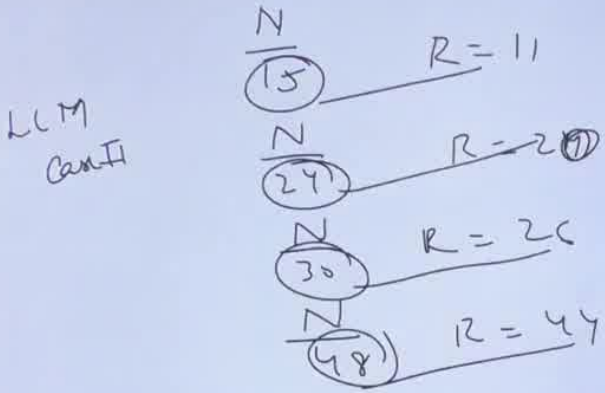

Find the largest number of 3-digits which when divided by 15, 24, 30 and 48; leaves remainders of 11, 20, 26 and 44 respectively.

- 964
- 960
- 956 ✓
- 926

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$X = 0.234343434\ldots\ldots$ — (1)

$10X = 2.343434\ldots\ldots$ — (2)

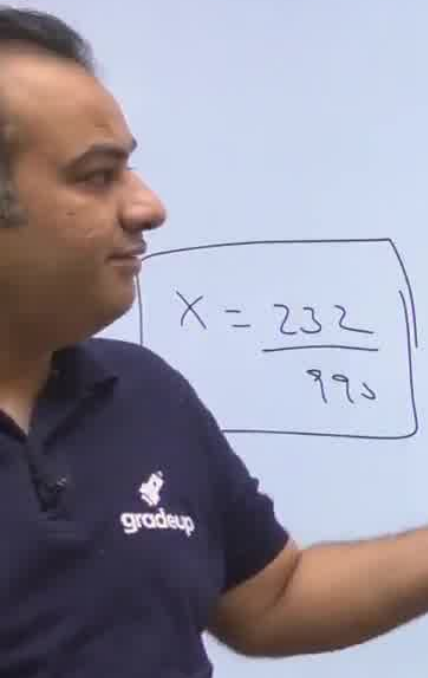
$100X = 23.434343\ldots\ldots$ — (3)

$1000X = 234.343434\ldots\ldots$ — (4)

(4) − (2)

$X = 232$

$X = \frac{232}{990}$



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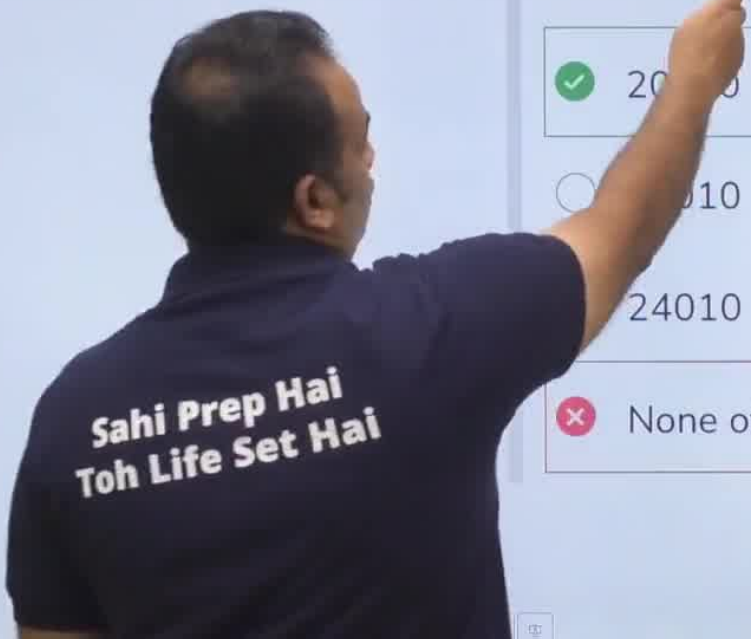
The value of $-1^2 + 2^2 - 3^2 + 4^2 - 5^2 + \ldots\ldots - 199^2 + 200^2$ is:

- 20[illegible]0
- [illegible]010
- 24010
- None of these



$$N = 0.\overline{756} = \frac{\cancel{756}^{\cancel{84}\ 28}}{\cancel{999}\ \cancel{111}\ 37}$$

$$M = 0.\overline{531} = \frac{\cancel{531}\ 59}{\cancel{999}\ 111}$$

$$\frac{37}{28} + \frac{111}{59}$$

$$= \frac{59 \cdot 37 + 111 \cdot 28}{59 \cdot 28}$$

$$= \frac{2183 + 3108}{1652}$$

If

$N = 0.756756756756$ - - - - - - - - -

and

$M = 0.531531531531$ - - - - - - - -.

Find the value of $\frac{1}{N} + \frac{1}{M}$.

- ~~$\frac{4580}{1519}$~~
- $\frac{2340}{1652}$
- $\frac{5291}{1652}$
- N.O.T.

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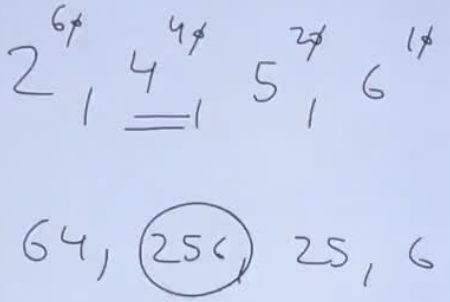

The greatest number among 2^{60}, 4^{40}, 5^{20}, 6^{10} is

- 2^{60}
- 4^{40}
- 5^{20}
- 6^{10}

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1 — 969

1 — 9 $\quad 9 \times 1 = 9$ digits

10 — 99 $\quad 90 \times 2 = 180$ digits

100 — 969 $\quad 870 \times 3 = 2610$ digits

2799

Find the total no. of digits required to write the counting from 1 to 969.

- 2365
- 2493
- 2799
- 1345

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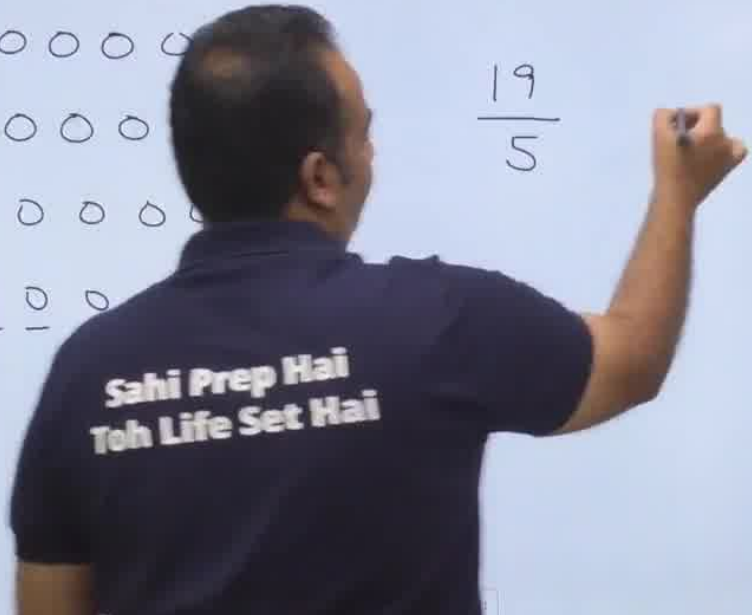
1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees

$$\frac{19}{5}$$



Shubhendu

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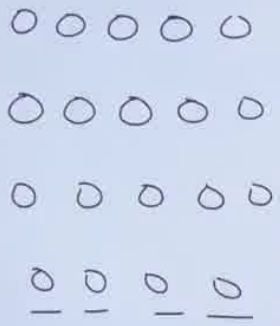
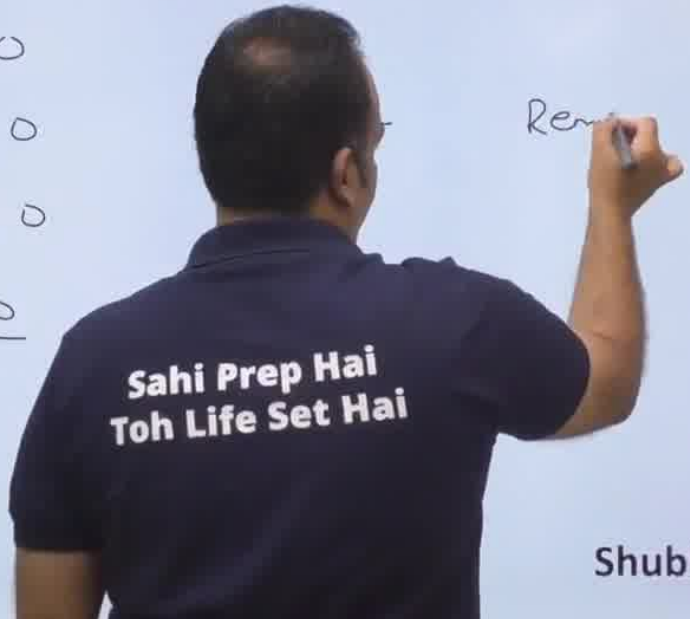
1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees





Shubhendu

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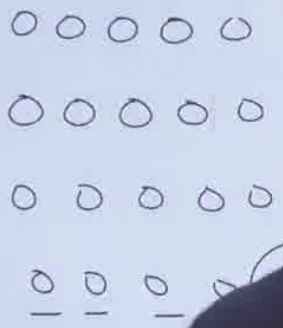
1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees



$\frac{19}{5}$

Rem = 4

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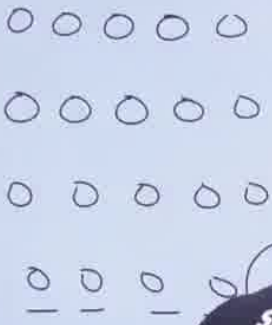
1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees



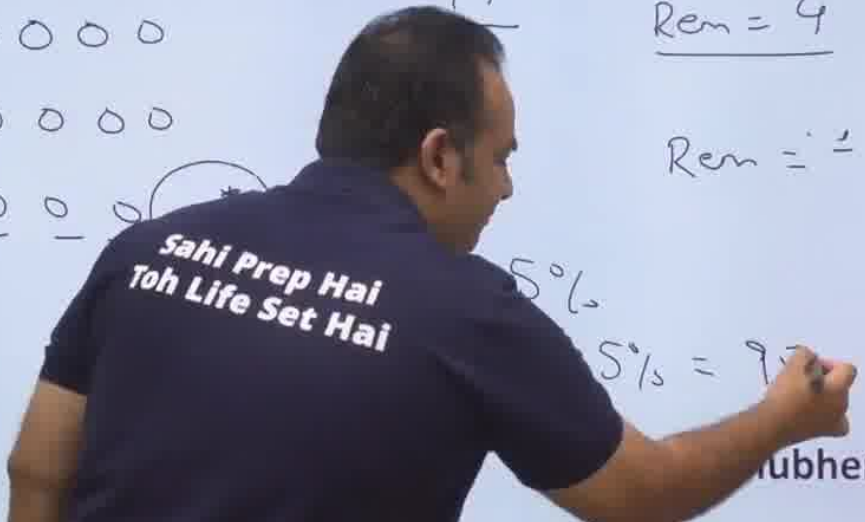
19

Rem = 4

Rem = -1

5%

5% = 9



ubhendu

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1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees

$\frac{19}{5}$ Rem = 4

Rem = -1

-5%

$100\% - 5\% = 95\%$

Shubhendu

gradeup

1. Sir I know that we add divisor to negative remainder that make it positive and less than divisor, however what is the actual maths concept behind it?

19 Toffees

19
5

Rem = 4

Rem = -1

= 95%

ndu

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2. Why is it that between negative and positive remainder there is always a difference of divisor?

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Largest 4 digit

$7891 + (N) \longrightarrow 7, 11, 14, 27, 28$

$LCM = 2^2 \cdot 3^3 \cdot 7^1 \cdot 11^1$

$= 756 \cdot 11$

$+ N = 8316$

$7891 + N = 16632$

$N = 8741$

Which of the following is the largest 4-digit number which can be added to 7891 in order to make the derived number divisible by each of 7, 11, 12, 27, and 28.

A 9123

B 9383

C 8753

D None of these

CORRECT

Alfia

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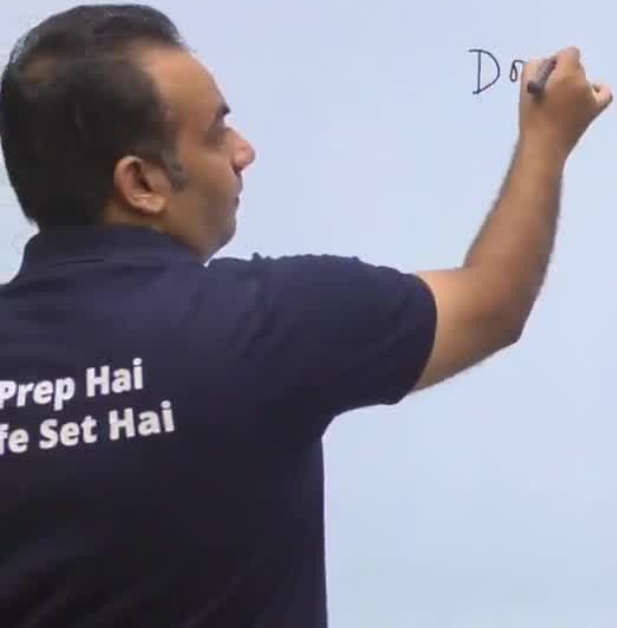
15. Find the HCF of :

$\left(3^{3^{333}}+1\right)$ and $\left(3^{3^{334}}+1\right)$

(A) 2 (B) 1

(C) $3^{3^{333}}+1$ (D) 3



Sudheer

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14. Let x be the least number, which when divided by 5, 6, 7 and 8 leaves a remainder 3 in each case but when divided by 9 leaves remainder 0. The sum of digits of x is

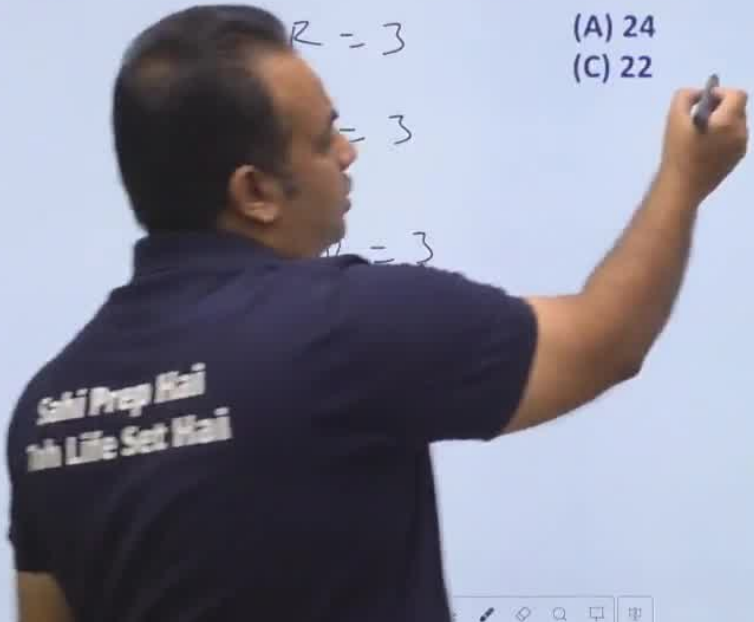
(A) 24
(B) 21
(C) 22
(D) 18

$\frac{N}{5}$ $R = 3$

$R = 3$

$= 3$

$= 3$



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$$\frac{x^n + y^n}{x+y} \qquad n \rightarrow \text{odd}$$

$$432^{35} + 23^{35}$$

$$\rightarrow 455 \rightarrow 35 \times 13$$

What is the remainder when we divide $(432^{35} + 23^{35})$ by 35?

A 4

B 7

C 0

SKIPPED

D 9

Prince sahani

gradeup

No. of Prime Factor

$(2^1 3^1 \cdot 5^1)^{26} \times (5^2)^{51} \times (2^2 \cdot 3^1)^{23}$

$2^{72} \cdot 3^{49} 5^{128}$

$72+49+128$

Find the No. of prime factor. $(30)^{26} \times (25)^{51} \times (12)^{23}$

A 249 SKIPPED

B 250

C 255

D 260

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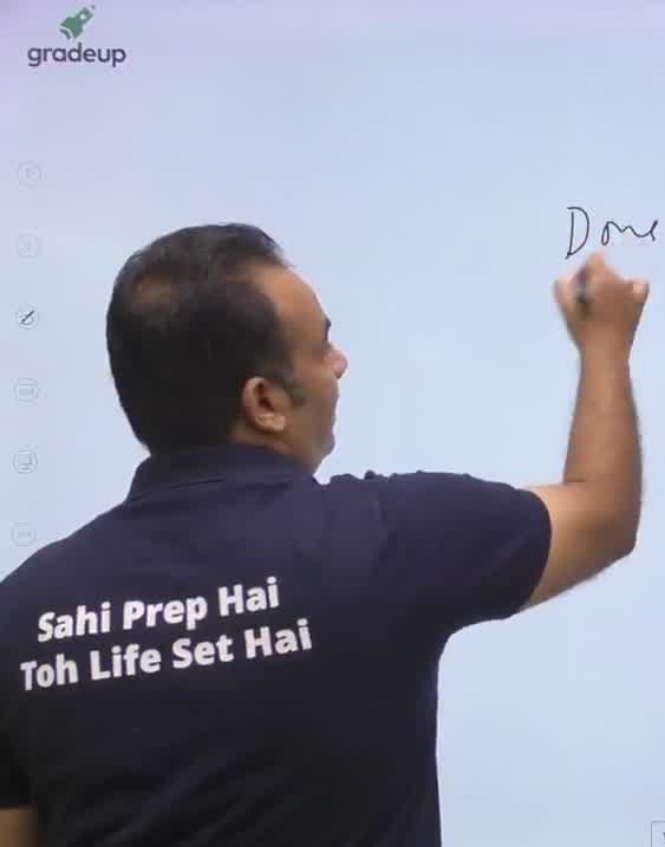

Find the remainder of:

$$\frac{10^{5^7}+10^{17^{18}}+10^{35!}+10^{29}}{6}$$

A 1

B 4

SKIPPED

C 0

D 5

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eg HCF = 20 LCM = 1680

How many pairs of no are possible ?

$N_1 = 20x$

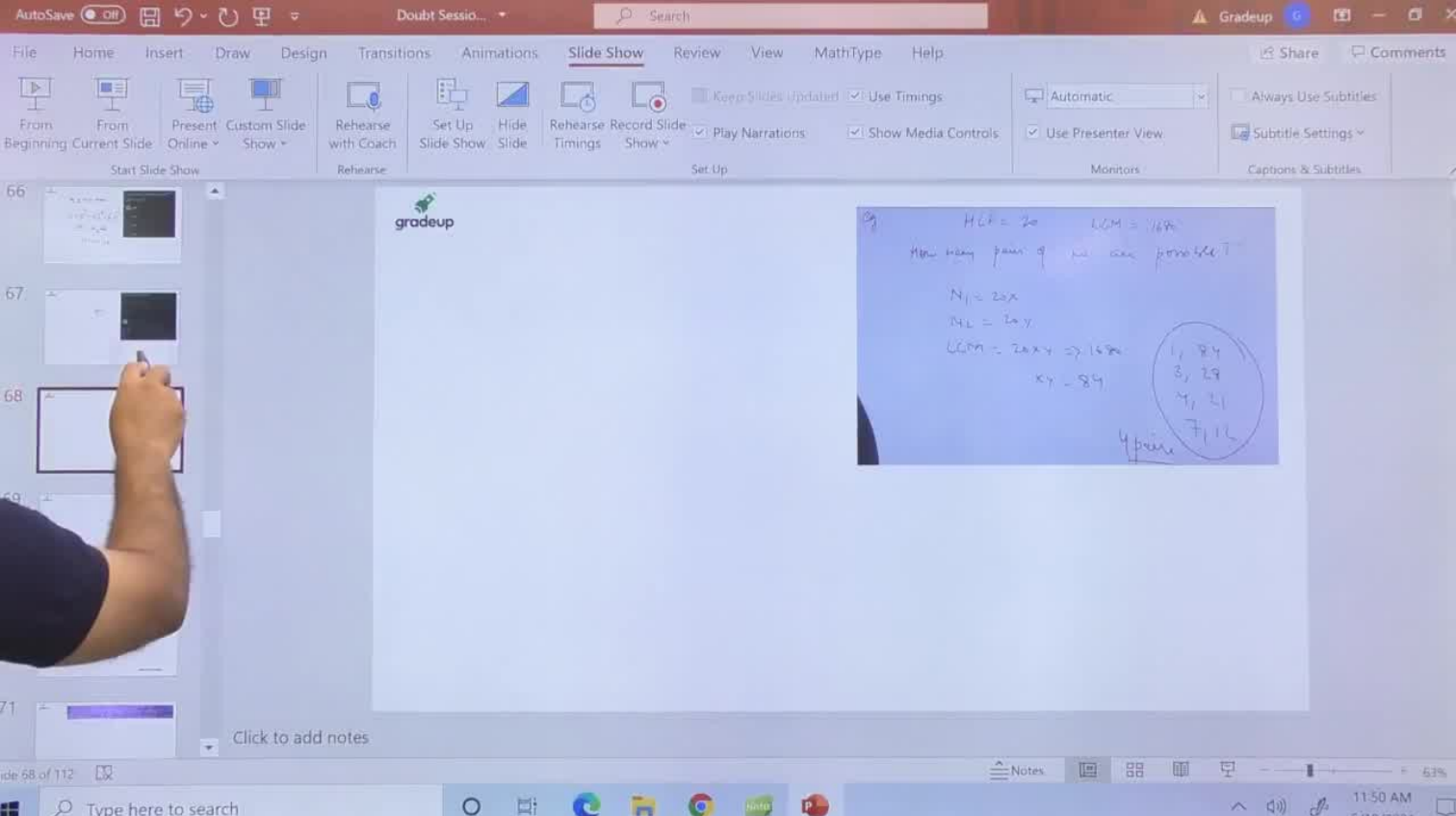
$N_2 = 20y$

$LCM = 20xy \Rightarrow 1680$

$xy = 84$

1, 84
3, 28
4, 21
7, 12

4 pairs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Record Slide Show
Keep Slides Updated
Use Timings
Play Narrations
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HCF = 20
LCM = 1680
How many pairs of no are possible?
N1 = 20x
N2 = 20y
LCM = 20xy => 1680
xy = 84
1, 84
3, 28
4, 21
7, 12
4 pairs
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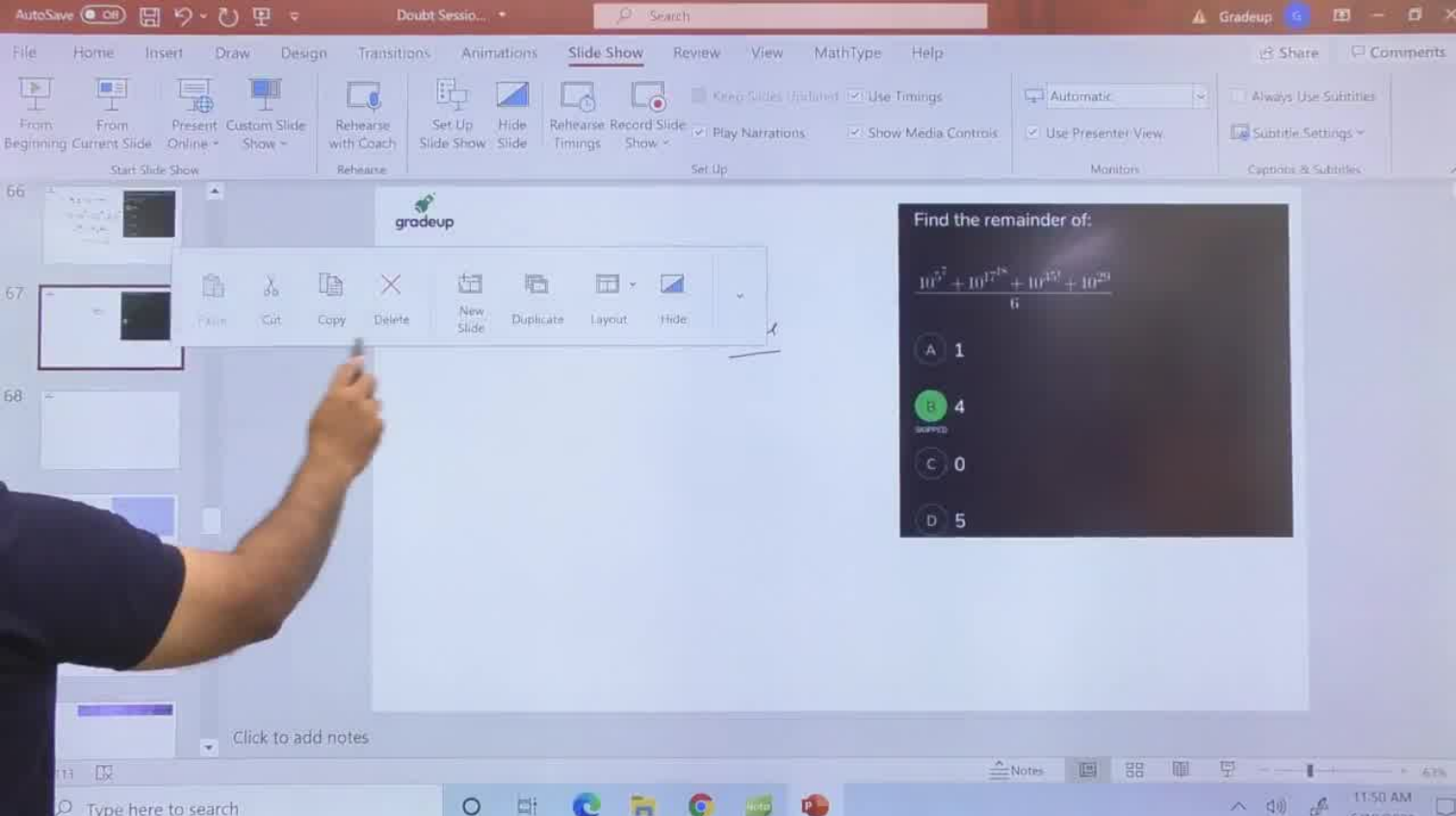
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Find the remainder of:
$\frac{10^{5^7}+10^{17^{28}}+10^{45^7}+10^{29}}{6}$
A 1
B 4
SKIPPED
C 0
D 5
Click to add notes
Notes
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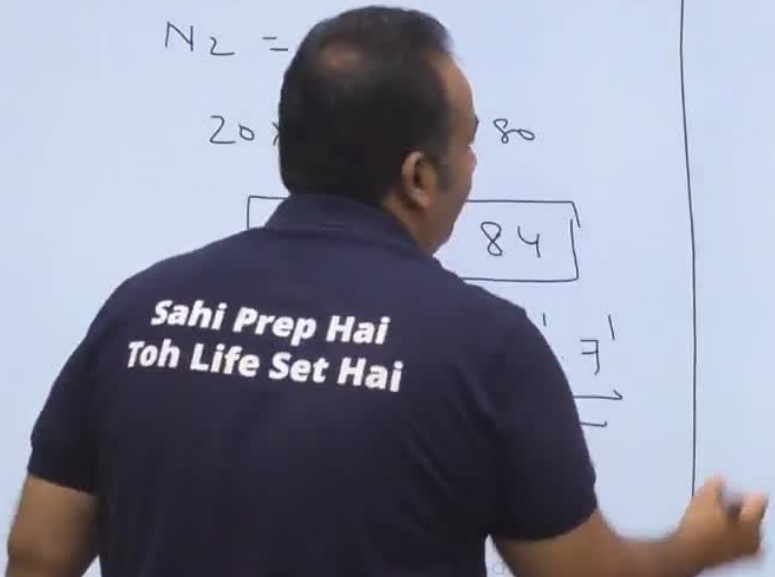
HCF = 20 LCM = 1680 How many Pairs ?

$N_1 = 20x$

$N_2 =$

$20x$ 80

84



gradeup

HCF = 20 LCM = 1680 How many pairs ?

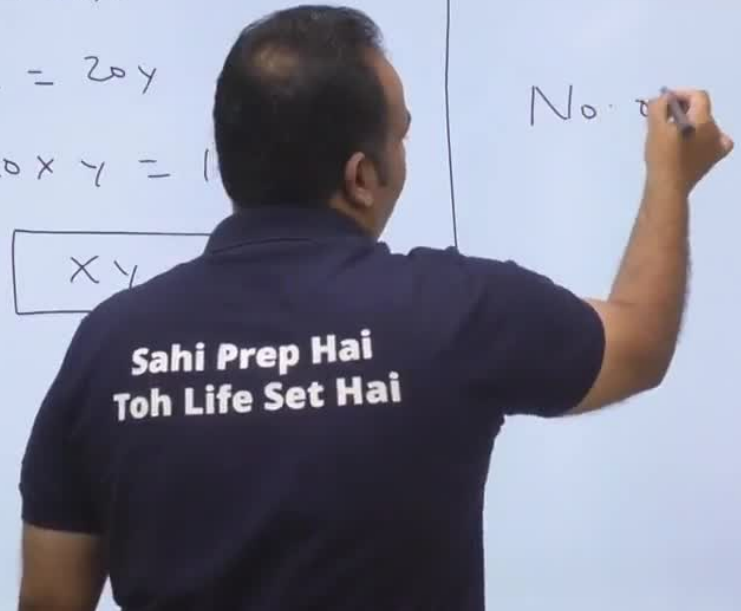
$N_1 = 20x$

$N_2 = 20y$

$20 \times y = 1$

xy

No.



gradeup

HCF = 20 LCM = 1680 How many Pairs ?

$N_1 = 20x$

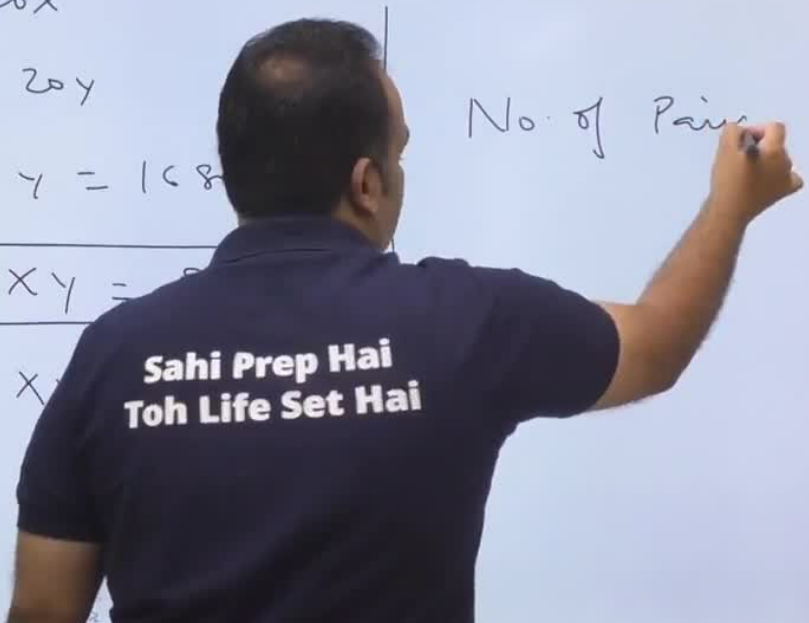
$N_2 = 20y$

$20x \times y = 1680$

$xy =$

x

No. of Pairs



gradeup

HCF = 20 LCM = 1680 How many Pairs ?:

$N_1 = 20x$

$N_2 = 20y$

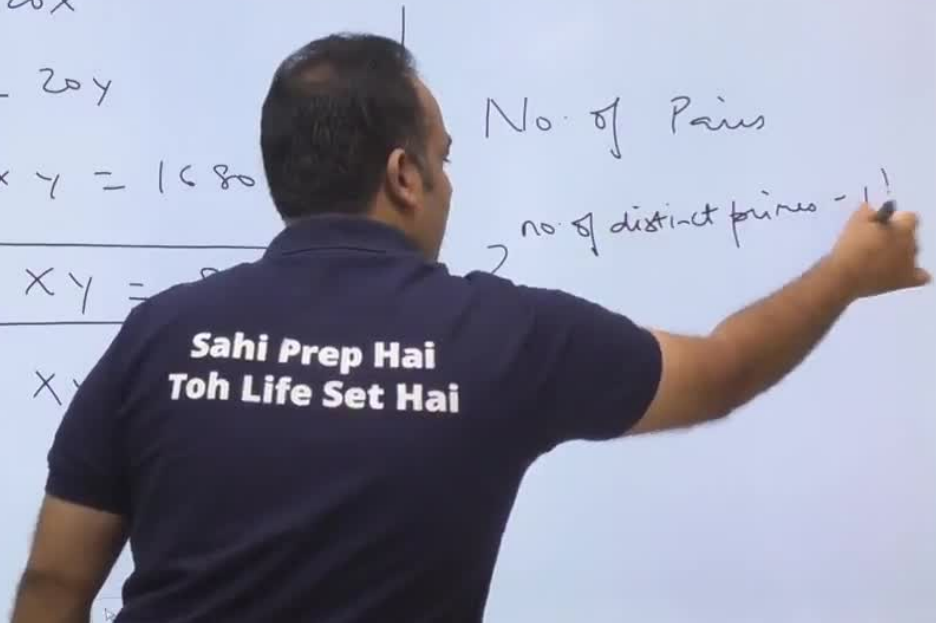
$20 \times y = 1680$

$xy =$

x

No. of Pairs

no. of distinct primes - 1



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HCF = 20 LCM = 1680 How many Pairs ?:

$N_1 = 20x$

$N_2 = 20y$

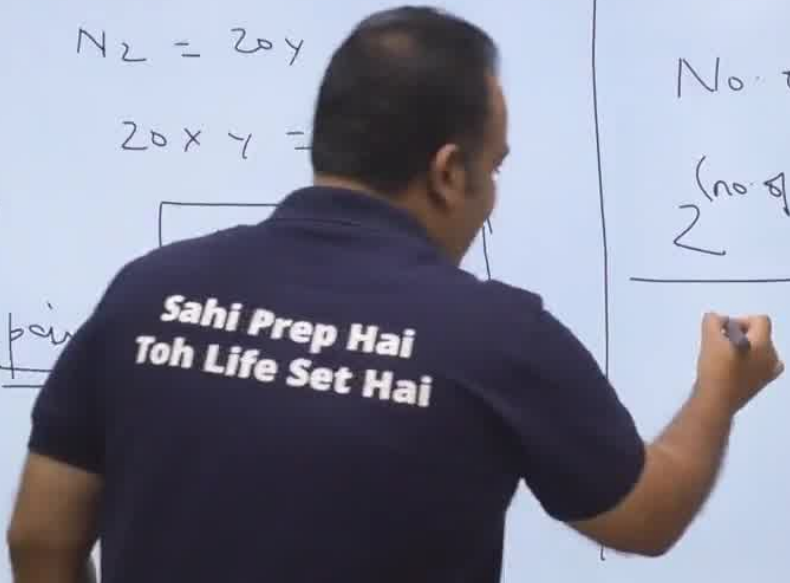
$20 \times y =$

No. of Pairs

$2^2 = 4$ pair

No. of Pairs

$2^{(\text{no. of distinct primes} - 1)}$



HCF = 20 LCM = 1680 How many Pairs ?:

$N_1 = 20x$

$20y$

$= 1680$

No. of Pairs

$xy = 84$

$2^2 3^1 7^1$

No. of Pairs

$2^{(\text{no. of distinct primes} - 1)}$

1	84
4_1	21
3_1	

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HCF = 20 LCM = 1680 How many Pairs ?:

$N_1 = 20x$

$N_2 = 20y$

$20 \times y = 1680$

$xy = 84$

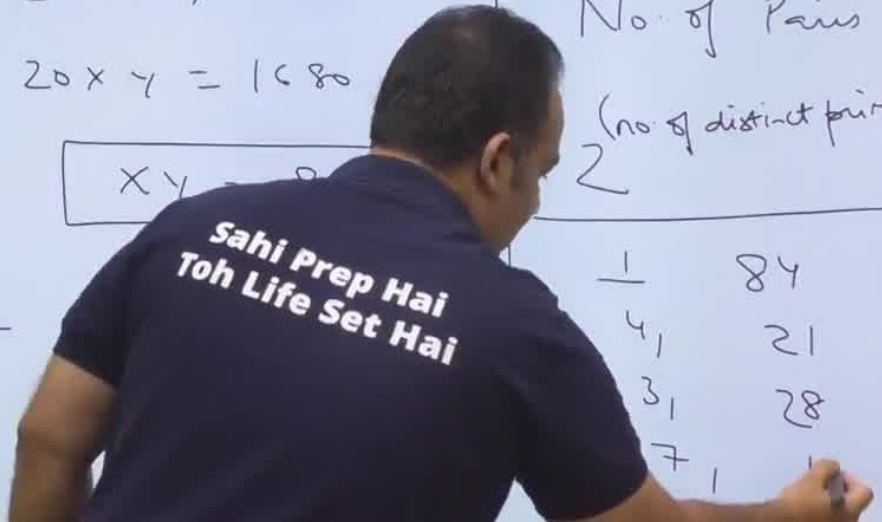
No of Pairs

$2^2 = 4$ pair

No of Pairs

$2^{(\text{no of distinct primes} - 1)}$

1	84
4	21
3	28
7	1



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eg HCF = 15

gradeup

eg HCF = 15 LCM -

gradeup

eg HCF = 15 LCM = 9

gradeup

eg HCF = 15 LCM = 9240

How many Pair

gradeup

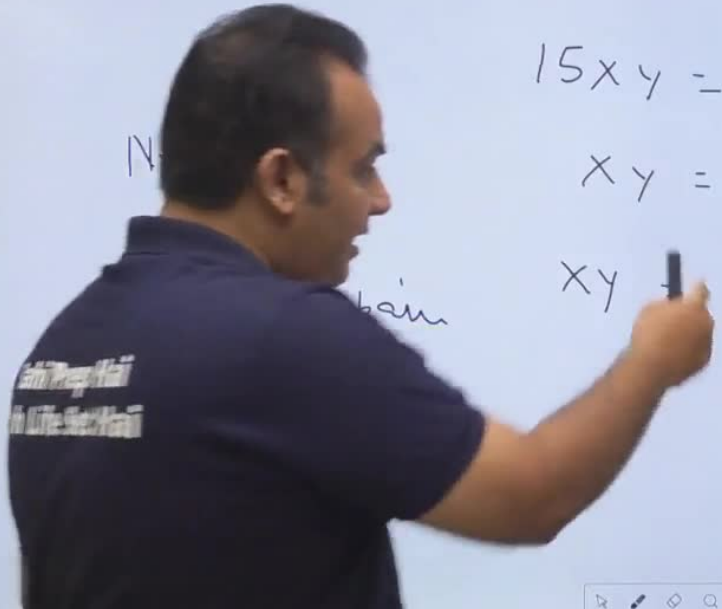
How many Pairs ??

eg HCF = 15 LCM = 9240

$15 \times y = 9240$

$xy = 616$

$xy = 2^3 \cdot 7^1 \cdot 11^1$



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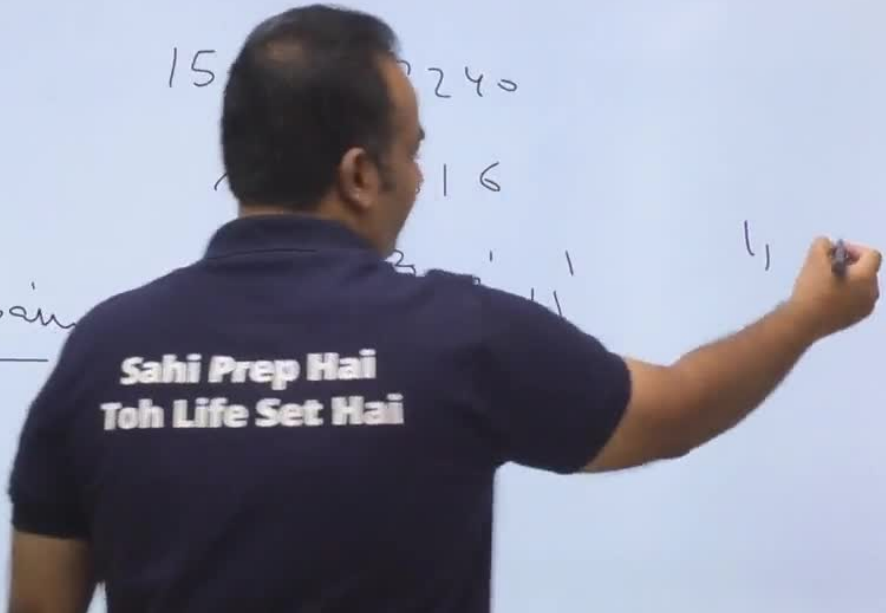
How many Pairs ??

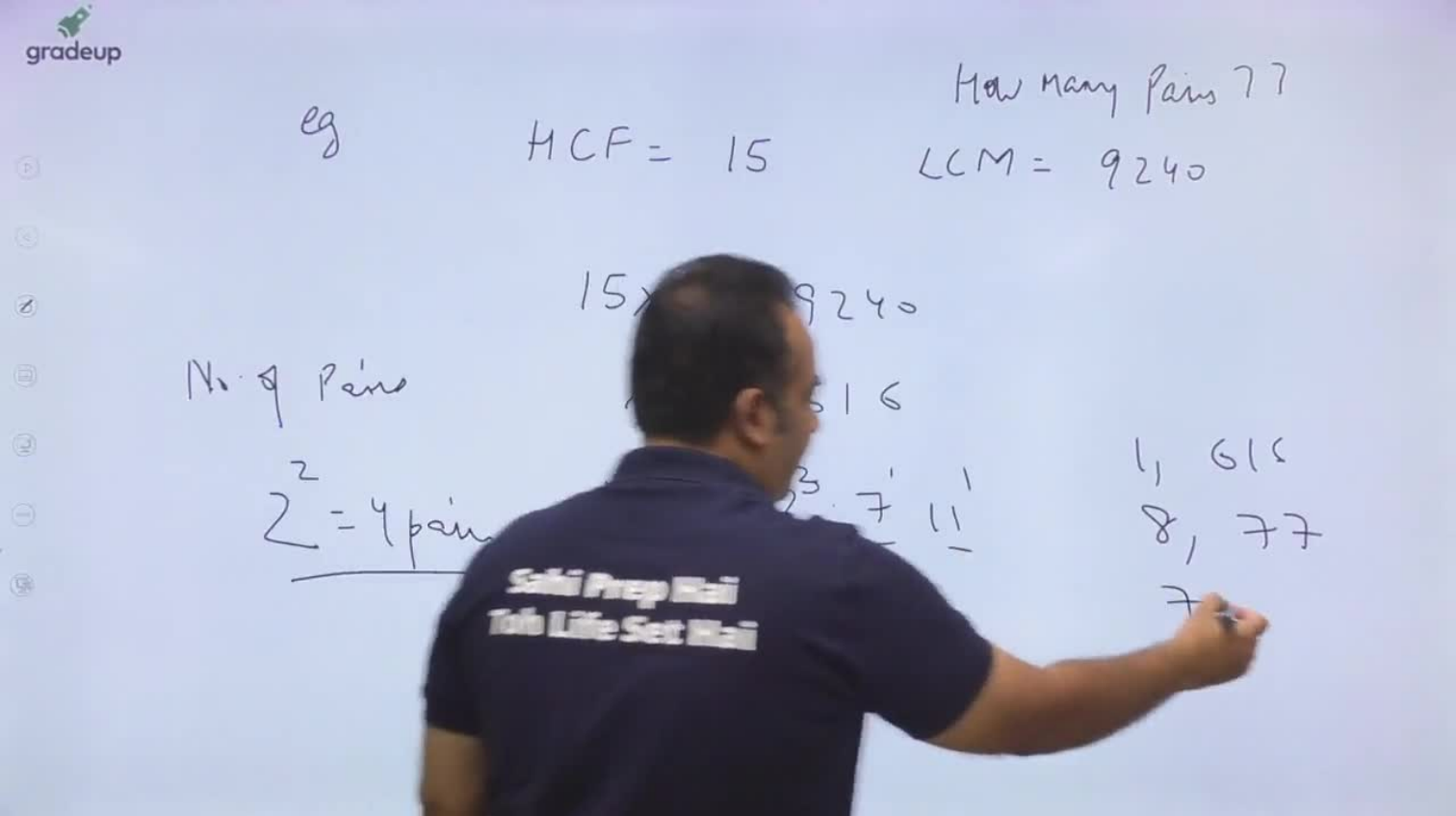
eg HCF = 15 LCM = 9240

15 9240

No. of Pairs 16

2^2 = 4 pairs




gradeup
How many Pairs ??
eg
HCF = 15
LCM = 9240
15 x 9240
No. of Pairs
516
2^2 = 4 pair
1, 616
8, 77
Sahi Prep Hai
Toh Life Set Hai

gradeup

How many Pairs ??

eg HCF = 15 LCM = 9240

$15 \times y = 924$

$xy = 61$

$xy =$

No. of Pairs

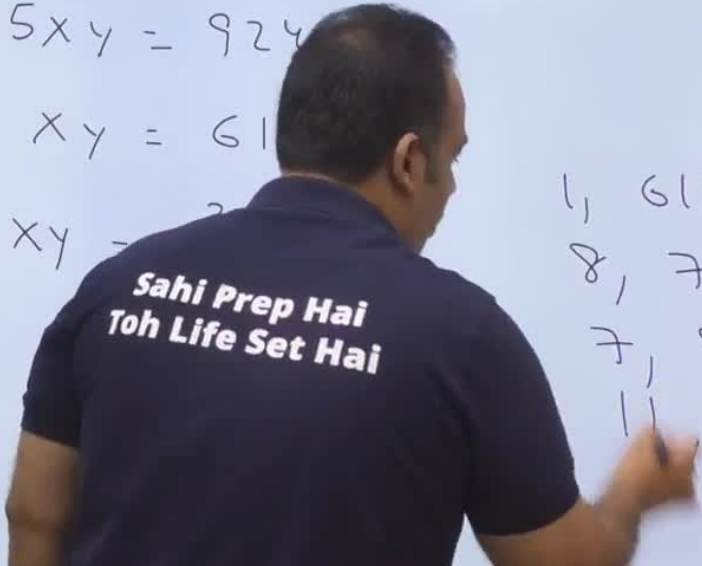
$2^2 = 4$ pair

1, 616

8, 77

7, 88

11, 56



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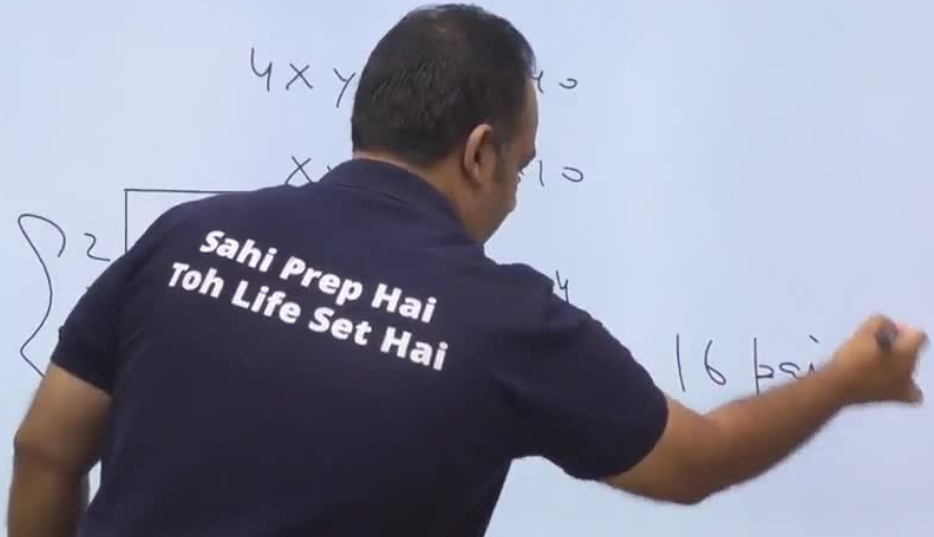
How many Pairs

HCF = 4

LCM = 9240

4 × y



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How many pairs

HCF = 4

LCM = 9240

$4 \times y = 9240$

$xy = 2310$

2	2310
3	1155
5	385
7	77
11	11
	1

$2^4 = 16$ pairs

gradeup

gradeup

Given n is an integer, what is the remainder when $(6n + 3)^2$ is divided by 9?

A 3

B 2

C 1

D 0

CORRECT

Concept

$$\frac{(6n+3)^2}{9}$$

$$\frac{36n^2 + 36n + 9}{9}$$

$$R = 0$$

gradeup

Q. When an integer P is divided by 9, the remainder is 4. What will be the remainder if 5P is divided by 9?

Ans. 2

$$P = 9x + 4$$

$$\frac{5(9x+4)}{9}$$

$$R = 2$$

Srinivas

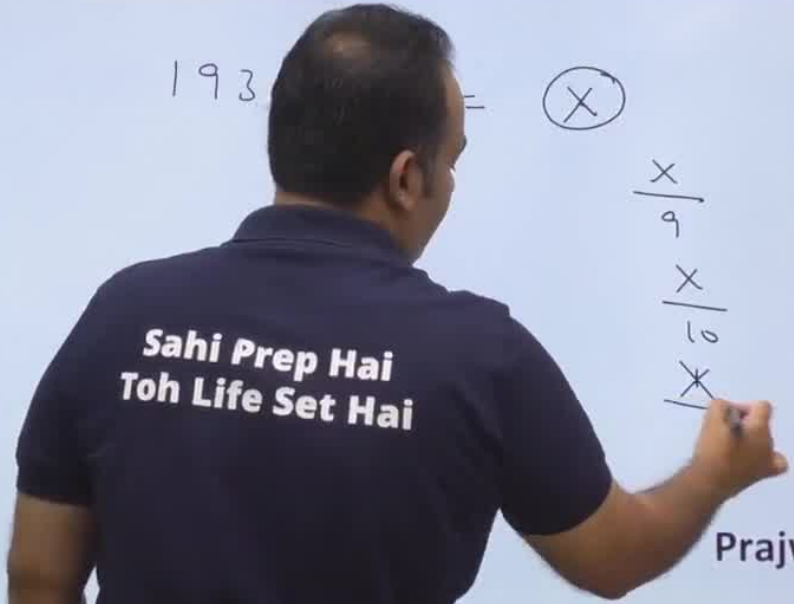
gradeup

Q) $N = 2^{48} - 1$ & N is exactly divisible by two numbers b/w 60 & 70. what is the Sum of those two numbers?

Ans): 128

gradeup

What least number must be Substracted from 1936 so that the resulting number when divided by 9, 10 and 15 will leave in each case the same remainder 7?



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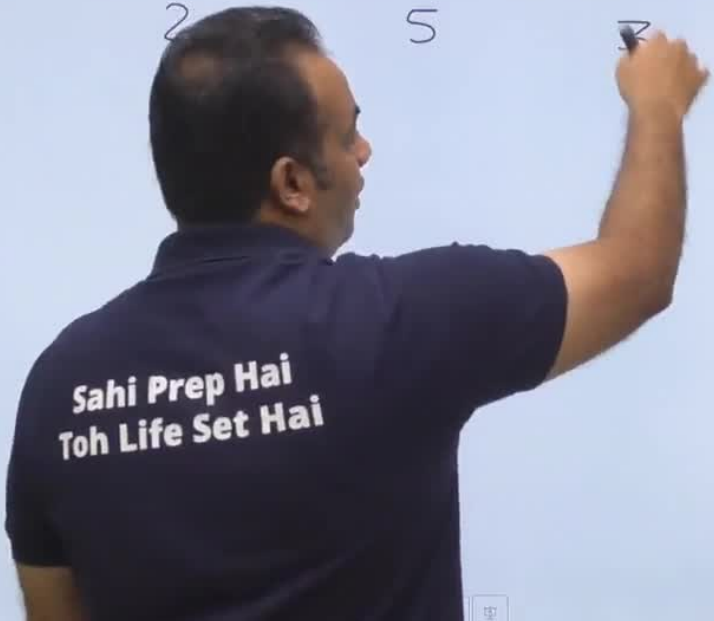
1 What is the highest power of 4 in 100!



gradeup

1 What is the highest power of 4 in 100!

$4 = 2^2$

5 3 (Prime)

2

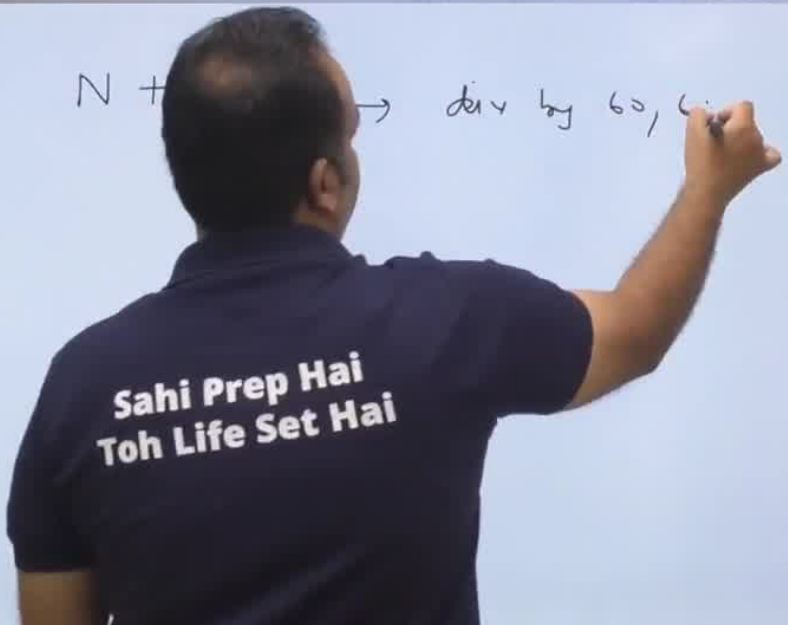
50
25
12
6
3
1

97

gradeup

4) The largest number of five digit number which when increased by 45 is divisible by 60, 65, 75, 80 exactly?

N + → div by 60, 65

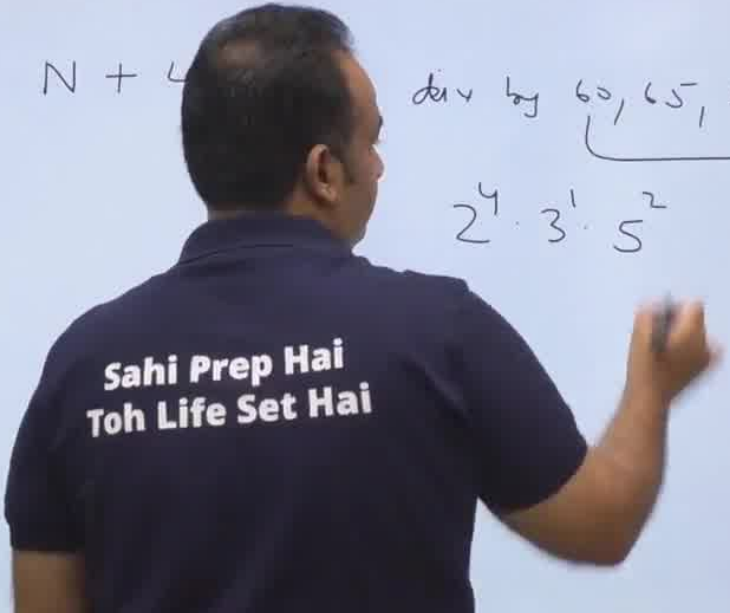


gradeup

4 The largest number of five digit number which when increased by 45 is divisible by 60, 65, 75, 80 exactly?

$N + 45$ div by 60, 65, 75, 80

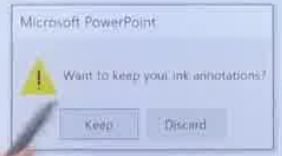
$2^4 \cdot 3^1 \cdot 5^2$



gradeup

4 The largest number of five digit number which when increased by 45 is divisible by 60, 65, 75, 80 exactly?

$N + 45 \longrightarrow$ div by 60, 65, 75, 80



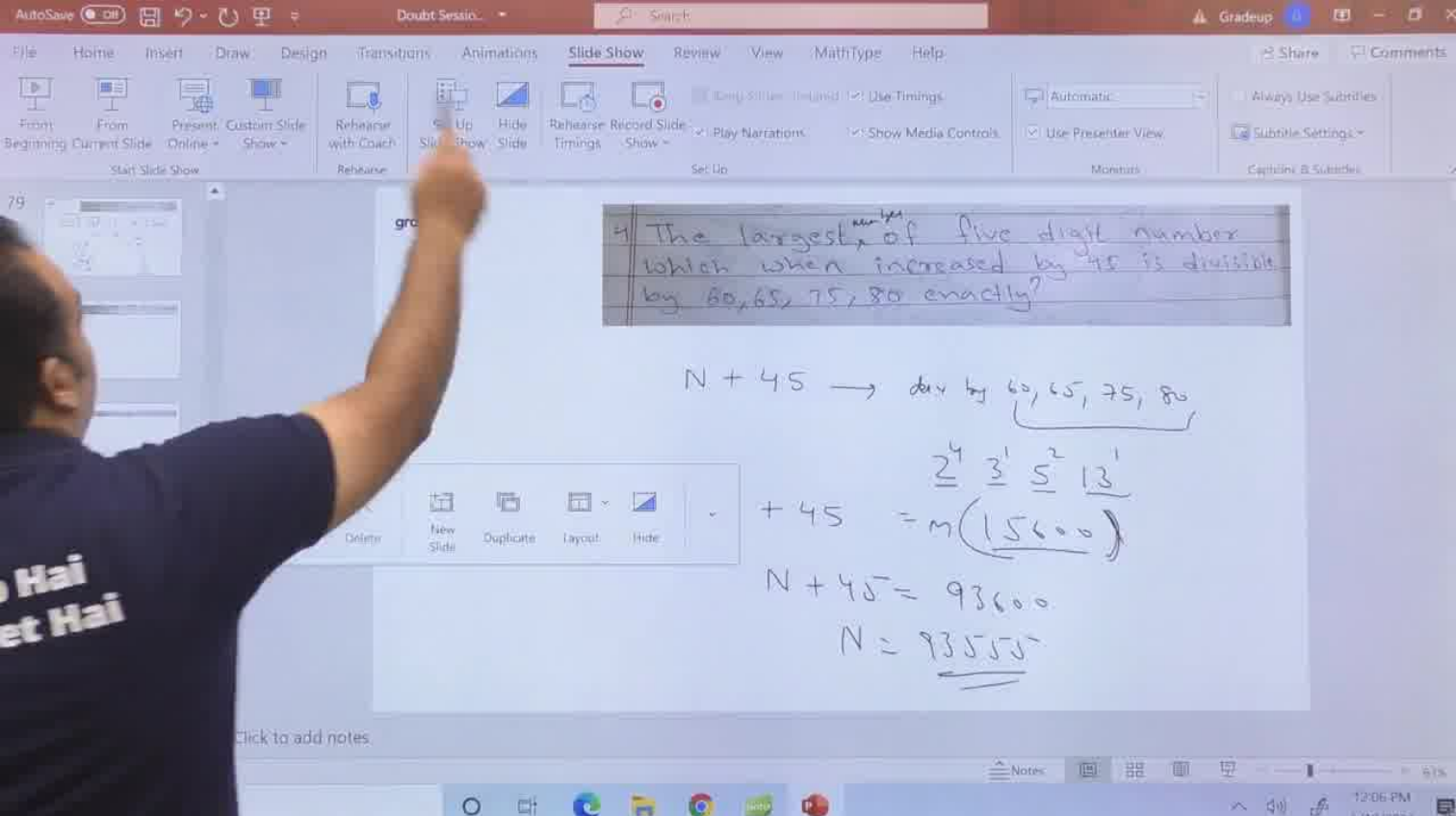
$2^4 \cdot 3^1 \cdot 5^2 \cdot 13^1$

$N + 45 = m(15600)$

$N + 45 = 93600$

$N = 93555$

Hai
Hai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Start Slide Show
Rehearse with Coach
Rehearse
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Rehearse Timings
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Set Up
Automatic
Use Presenter View
Monitors
Always Use Subtitles
Subtitle Settings
Captions & Subtitles
4 The largest number of five digit number which when increased by 45 is divisible by 60, 65, 75, 80 exactly?
N + 45 → div by 60, 65, 75, 80
2^4 3^1 5^2 13^1
+ 45 = m(15600)
N + 45 = 93600
N = 93555
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gradeup

Q] L.C.M and ratio of four number are 630 and 2:3:5:7 respectively. The difference between the greatest and least number is

(a) 6 (b) 14 (c) 15 (d) 21

o Hai
et Hai

Bruce jangkhomang Haokip

Q2// A Gardener has to plant trees in rows containing equal no. of trees. if he plants in rows of 6, 8, 10 or 12, then 5 trees are left unplanted. But if he plants in rows of 13 trees each, Then no tree is left. What is the no. of trees that the gardener plants

(a) 485 (b) 725 (c) 845 (d) None

$\frac{N}{6, 8, 10, 12}$ $R = 5$

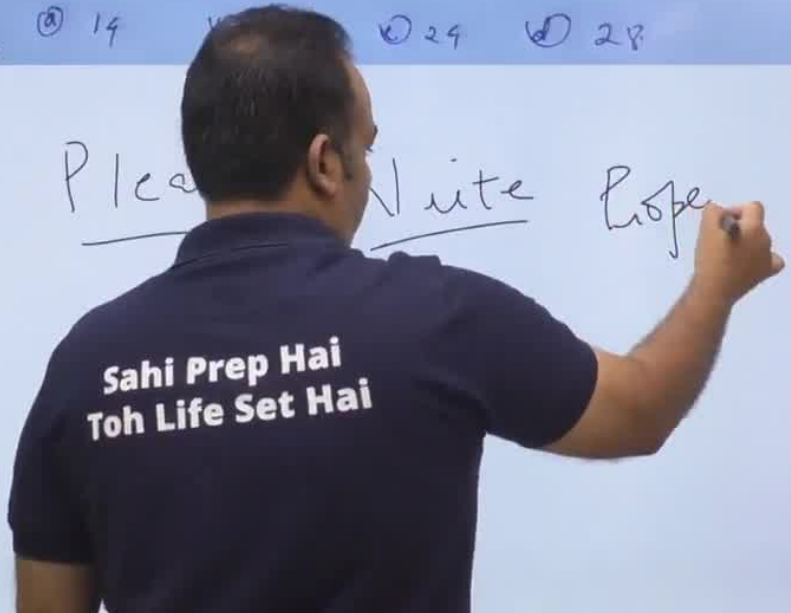
$\frac{N}{13}$ $R = 0$

gradeup

If 'r' is the remainder when each of 7654, 8506 & 9997 is divided by the greatest no. d (d>1). Then (d−r) is equal to ?

(a) 14 (b) [illegible] (c) 24 (d) 28

Plea[illegible] Write Prope[illegible]



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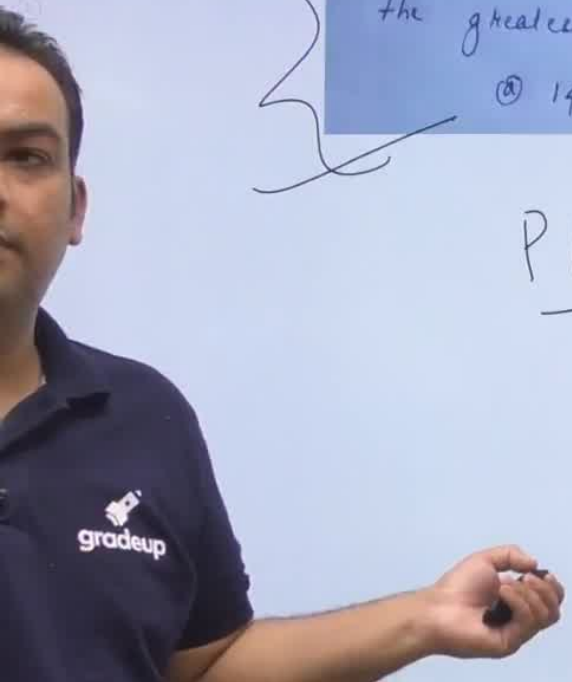
If 'r' is the remainder when each of 7654, 8506 & 9997 is divided by the greatest no. d (d>1). Then (d−r) is equal to ?

(a) 14 (b) 19 (c) 24 (d) 28

Plear Write Properly



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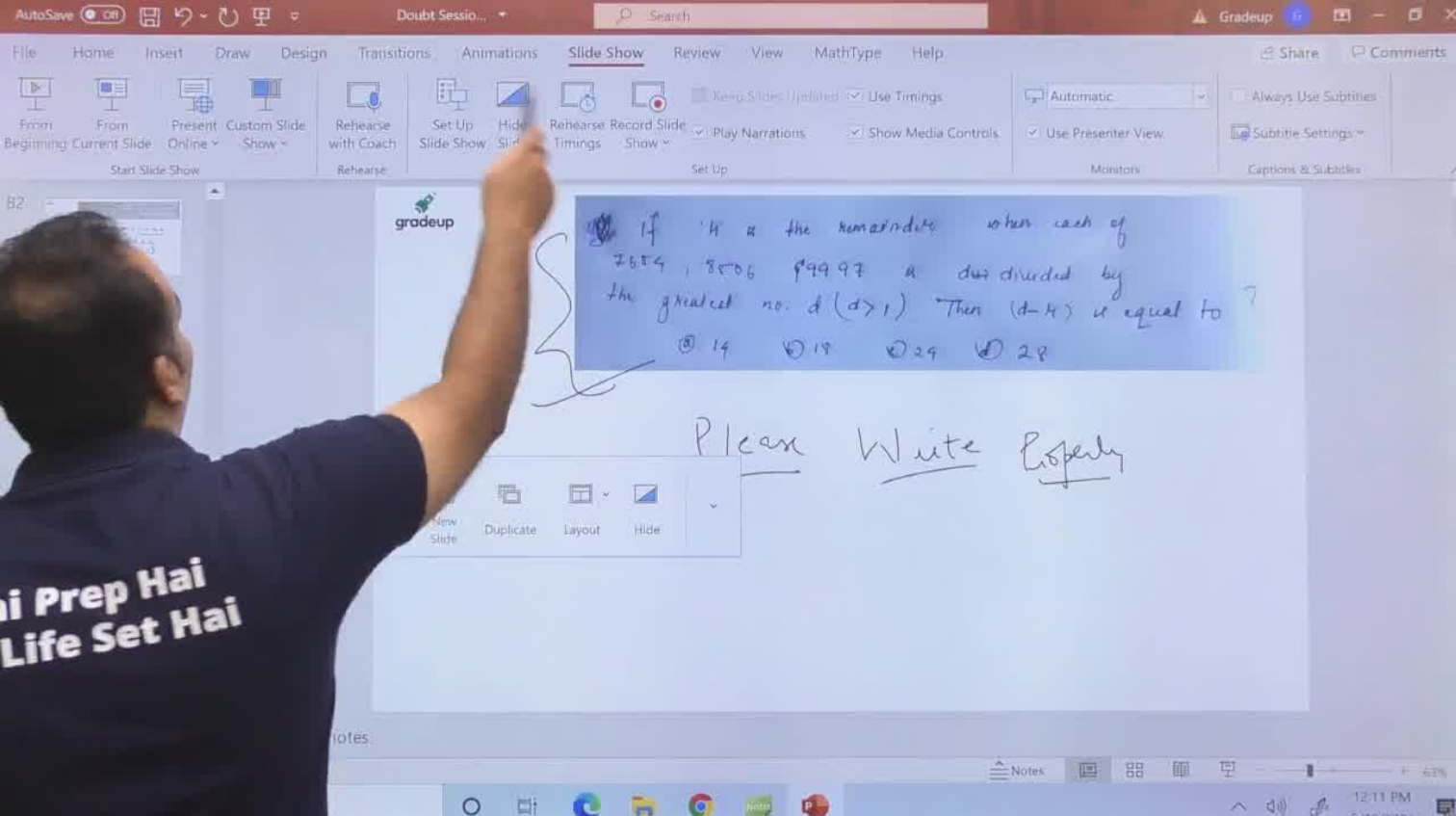
Q2// Find The greatest number of 4 digits which when divided by 4, 5, 6, 7 & 8 leaves 1, 2, 3, 4, & 5 as remainders.

a) 9237 b) 9240

c) 9840 d) 9999.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Start Slide Show
Rehearse with Coach
Rehearse
Set Up Slide Show
Hide Slide
Rehearse Timings
Record Slide Show
Keep Slides Updated
Use Timings
Play Narrations
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gradeup
If 'H' is the remainder when each of 7854, 8506, 9997 is divided by the greatest no. 'd' (d>1). Then (d-4) is equal to ?
(a) 14 (b) 19 (c) 29 (d) 28
Plear Write Properly
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hi Prep Hai
Life Set Hai
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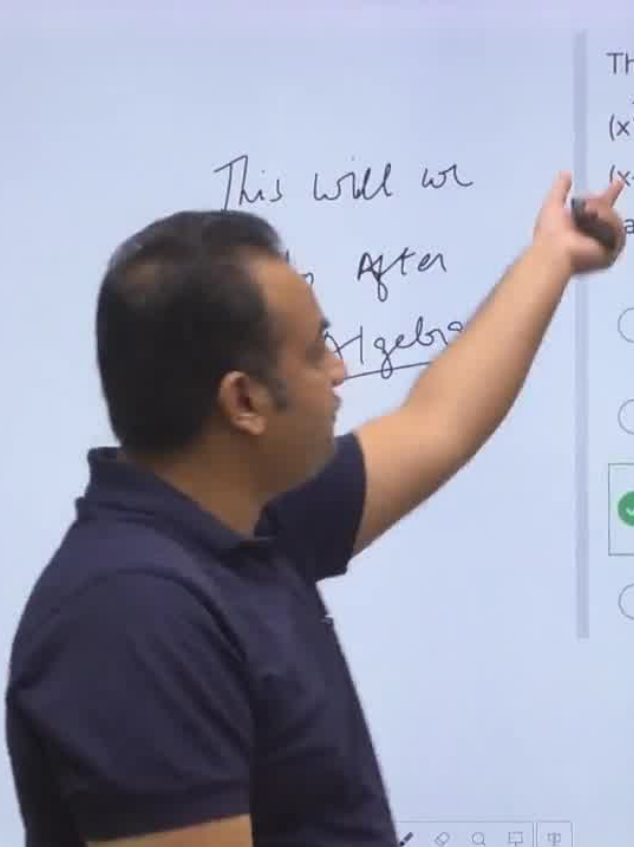
gradeup

The H.C.F of two polynomials $f(x)=(x-1)(x^2-x-6)$ and $g(x)=(x-2)(k^2x^2-1)$ is $(x-1)$. Which of the following can be the value of k?

- 0
- 2
- -1 ✓
- -2



Pallabi Nandi

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$$\frac{2^{736}}{\quad}$$

$$= \frac{(2^3)^{245} \cdot 2^1}{9}$$

$$= 7$$

2^{736} / 117 remainder = m

Ans. 16

Dev chouhan

gradeup

$$\frac{2^{736}}{3^2 \cdot 13^1}$$

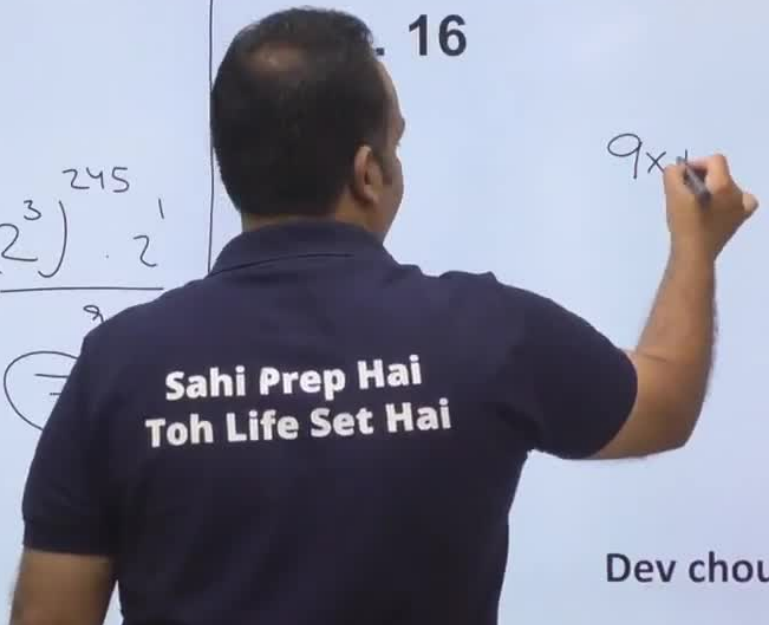
$$\frac{2^{736}}{9} = \frac{(2^3)^{245} \cdot 2^1}{9}$$

$$= \frac{}{}$$

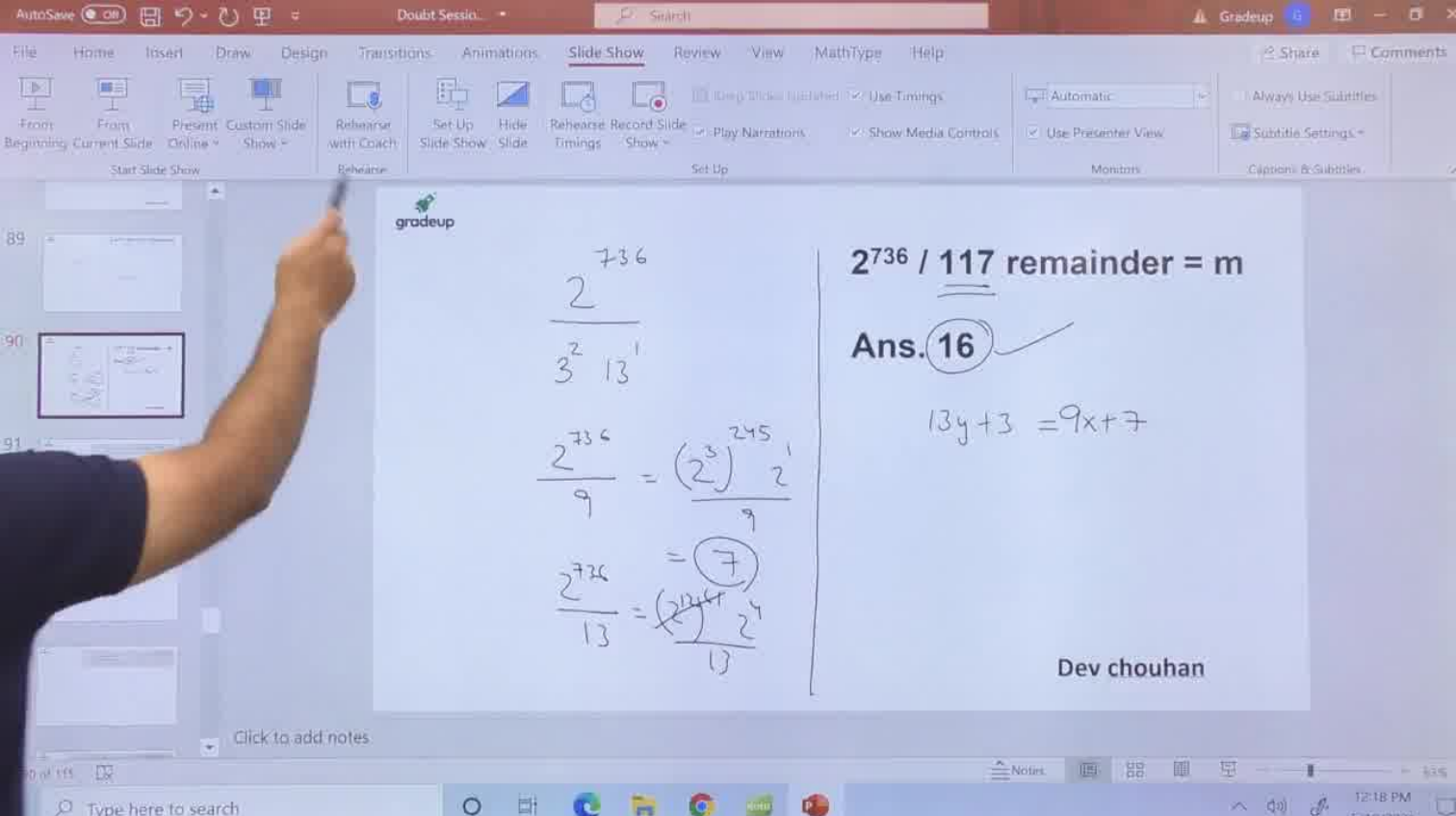
2^{736} / 117 remainder = m

16

9x



Dev chouhan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2^{736} / 117 remainder = m
Ans. 16
$13y+3 = 9x+7$
Dev chouhan
$\frac{2^{736}}{3^2\ 13^1}$
$\frac{2^{736}}{9} = \frac{(2^3)^{245}\ 2^1}{9}$
$= 7$
$\frac{2^{736}}{13} = \frac{(2^{12})^{61}\ 2^4}{13}$
Click to add notes

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Q.1: Find the number of factors of

(i) $A = 280$

(ii) $B = 2^3 \cdot 3^8 \cdot 5^4$

(iii) $C = 8^9 \cdot 9^8$

Student 1

gradeup

Conversion of a Recurring decimal in p/q form.

E.g. $X = 0.2353535.....$

$10X = 2.353535.....$ (1)

$100X = 23.53535.....$

$1000X = 235.3535.....$ (2)

Subtract (1) from (2)

$990X = 233$

$$X = \frac{233}{990}$$

Sir I find these two topics were left from "Classification of Numbers"

Pritam Chakraborty

gradeup

There are two gears in a mechanical system, which are in contact. There are 32 teeth in small gear and 36 teeth in bigger gear. If bigger gear completes 64 cycles in 1 second. Then in many times two particular teeth touch each other in 10 hours?

A 28800

B 278000

C 288800

D 288000

Piyush Gupta

gradeup

4) If A and B are H.C.F and L.C.M respectively of two algebric expressions x and y. and $A+B = x+y$, then value of A^3+B^3 is.

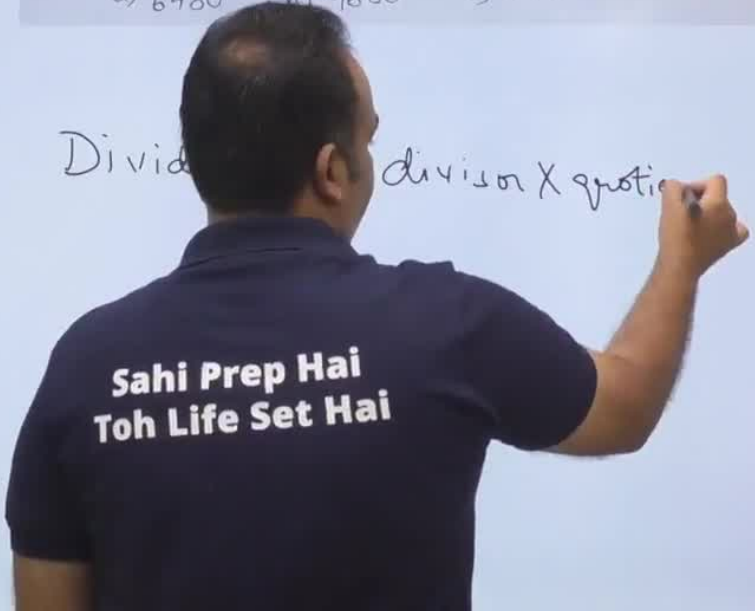
a) x^3-y^3 b) x^3 c) y^3 d) x^3+y^3.

gradeup

2) A number x is divided by a divisor it is seen that the divisor = 4 times the quotient = double the remainder. If the remainder is 80 then the value of x is

a) 6480 b) 9680 c) 8460 d) 4680

Divid... divisor X quoti...



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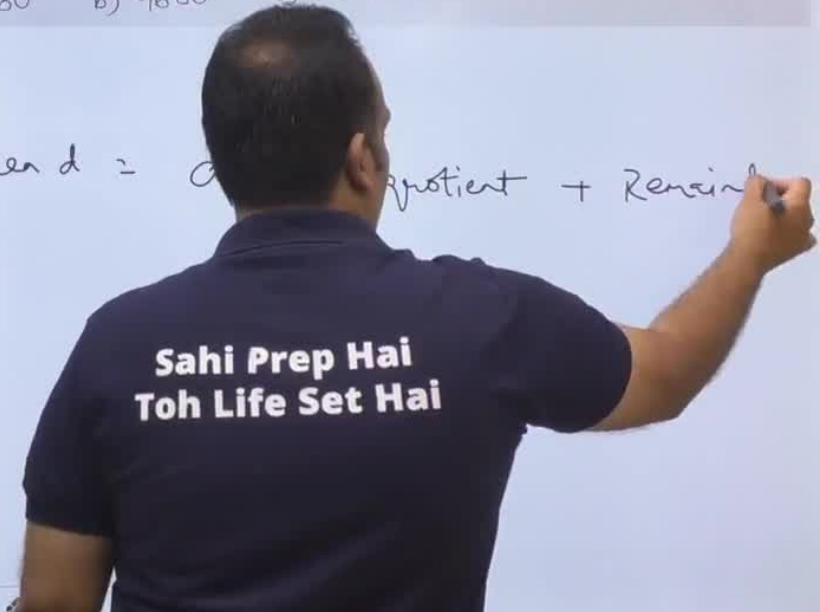
2) A number x is divided by a divisor it is seen that the divisor = 4 times the quotient = double the remainder. If the remainder is 80 then the value of x is

a) 6480 b) 9680 c) 8460 d) 4680

Dividend = Quotient + Remainder



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2) A number x is divided by a divisor it is seen that the divisor = 4 times the quotient = double the remainder. If the remainder is 80 then the value of x is

a) 6480 b) 9680 c) 8460 d) 4680

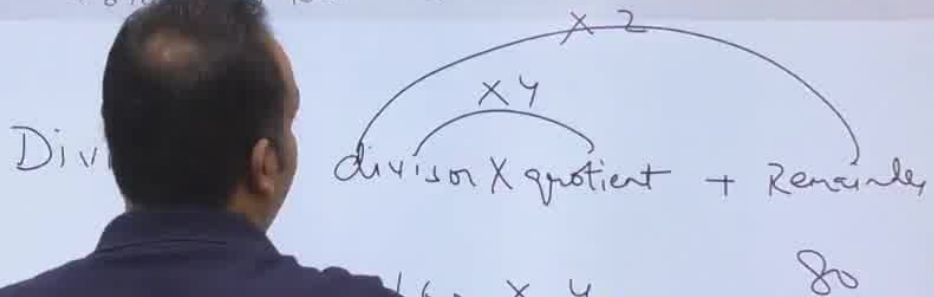
Dividend = Divisor × quotient + Remainder

×4

gradeup

2) A number x is divided by a divisor it is seen that the divisor = 4 times the quotient = double the remainder. If the remainder is 80 then the value of x is

a) 6480 b) 9680 c) 8460 d) 4680



Sahi Prep Hai
Toh Life Set Hai

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5) If a certain number of two digits is divided by the sum of its digits, the quotient is 6 and the remainder is 3. If the digits are reversed and the resulting number is divided by the sum of the digits, the quotient is 4 and the ~~reve~~remainder is 9. The sum of the digits of the number is

(Ans. 12)

gradeup

1) The maximum value of F in the following equation,

$$5E9 + 2F8 + 3G7 = 1114,$$ where E, F, G each stands for any digit.

Subhajit Hazari

gradeup

Find the remainder of:

$$\frac{10^{5^7}+10^{17^{18}}+10^{35!}+10^{29}}{6}$$

A 1

B 4

SKIPPED

C 0

D 5

Garvit Karesiya

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10. The sum of two numbers is 36 and their HCF and LCM are 3 and 105 respectively. The sum of the reciprocals of two numbers.

(A) 2/35
(B) 3/25
(C) 4/35
(D) 2/25