

Quant ...

Number Problem $\rightarrow a-1=0$

Yes

~~145-150~~
~~200~~
210
~~140-160~~
~~130-130~~

$$(\sqrt{x})^2 - (\sqrt{1})^2 = 0$$

$$(\sqrt{x} - \sqrt{1})(\sqrt{x} + 1) = 0$$

$$x^2 - 5x + 6 = 0$$

$$x^2 - 3x - 2x + 6 = 0$$

$$x(x-3) - 2(x-3) = 0$$

$$(x-3)(x-2) = 0$$

#

$$10! = 10 \times 9 \times 8 \times 7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1$$

$$2! = 1 \times 2$$

$$50! = 50 \times 49 \times \dots \times 1$$

$$102! \rightarrow$$

$$\frac{15700}{59} = 300$$

YES

15000

1 2 3 4 ... >

$$1! = 1$$

$$2! = 2$$

$$3! = 6$$

$$4! = 1 \times 2 \times 3 \times 4$$

$$5! = 120$$

$$35!$$

1 2 3

0

2 3 5

12!

2 x 5

10

2

4

22! =

10

12 15

20

2 5

5-75 \rightarrow 5

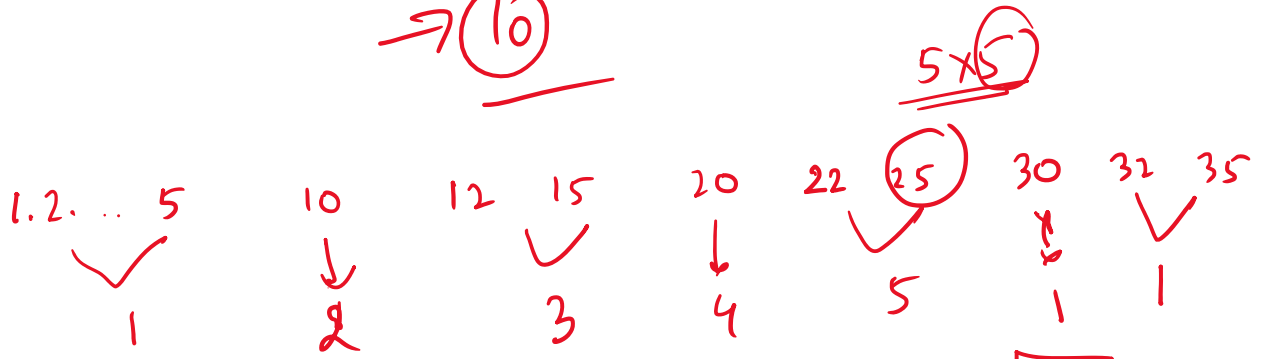
10-7

10-7

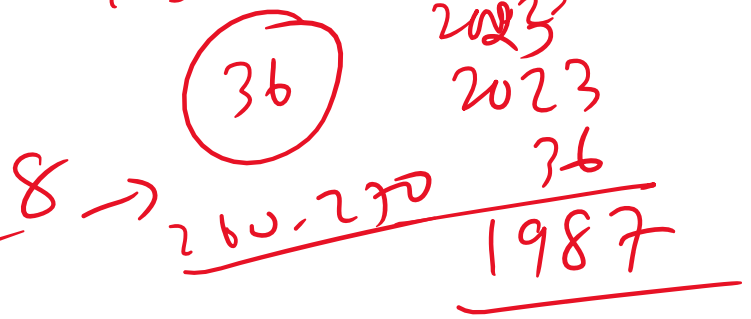
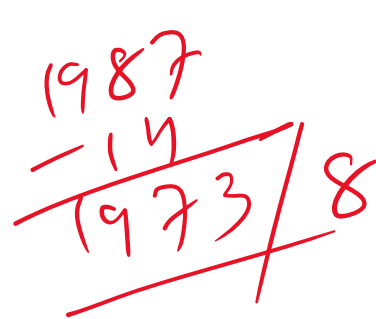
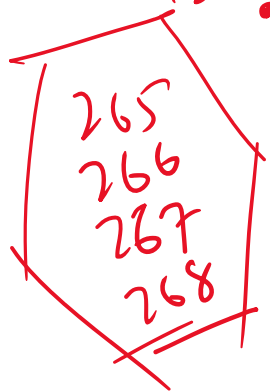
$5 \cdot 75 \rightarrow 35$
 $5 \cdot 99 \rightarrow 35!$
 $\rightarrow \left[\frac{35}{5} \right] \rightarrow 7$ ~~\times~~
 $\rightarrow \left[\frac{35}{5} \right] + \left[\frac{35}{25} \right] + \frac{35}{125}$
 $= 7 + 1$

$\Rightarrow 8$

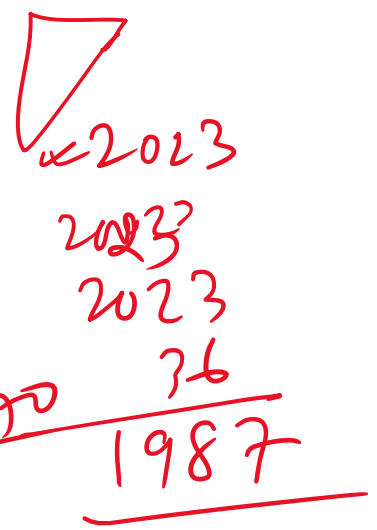
$48! \rightarrow \frac{48}{5} + \frac{48}{25} + \dots$
 $\rightarrow 9 + 1$
 $\rightarrow 10$



$132! \rightarrow \frac{132}{5} + \frac{132}{25} + \frac{132}{125}$



36



$22 \rightarrow 3$

Anders & Jensen

X

$$\frac{22}{7} \rightarrow (3)$$

Pages 2 ~~Demons~~

6hr

1 1/2 hr

22! \rightarrow 7B \rightarrow highest power

22! \Rightarrow 9!
1.2.3... (7) ... (14) ... (21) 22 \rightarrow 7³

⊗

$$\frac{22!}{7^3} \quad \frac{29!}{7^4} \quad \frac{41!}{7^5} \quad \frac{48!}{7^6} \rightarrow 6$$

102! \rightarrow (11) highest power

$$\frac{102}{11} + \frac{102}{121}$$

$$\rightarrow (9)$$

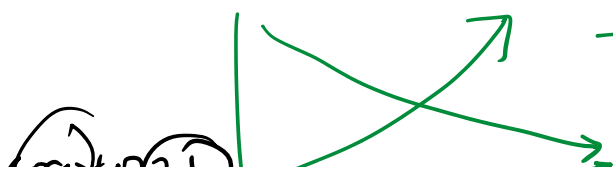
2023

Group

WBES \rightarrow CSAT

CSAT \rightarrow Banking \rightarrow Mix \rightarrow

Railway \rightarrow SSC



29

$(57242) \Rightarrow 2$
 $983 \times 689 \times 4321$
 $8^1 \rightarrow 8^1 \rightarrow 8$
 $2 \times 4 = 8$
 $8 \times 8 = 64$
 $64 \times 2 = 128$
 $20000 - 25000$
 $\frac{89}{4} \rightarrow 9$

6

(57242)
 $9 \times 7 \times 5 \times 3 \times 1$

$(9)(7)(5)(3)(1)$

$\Rightarrow 2$
 $8^5 \Rightarrow 8^7 \Rightarrow 2^9$
 $\Rightarrow 2$

$2^3 = 8^2 = 64$

$2^{3 \cdot 2} = 2^6 = 64$

$\frac{63}{15}$
 945

$\frac{27}{27}$
 729

$3^2 = 9$
 $3^3 = 27$
 $3^2 \cdot 3 = 27$

$3^{2 \cdot 3} = 3^6$
 $= (3^3)^2$
 $= (27)^2$
 $= 729$

$3^2 = 9$
 $3^3 = 27$

$3^2 \cdot 3^3 = 27$
 73

$3^{2 \cdot 3} = 3^6 = 729$

$9^3 = 729$

$(3^2)^3$

(57242)
 $9 \cdot 7 \cdot 5 \cdot 3 \cdot 1$
 945

$\Rightarrow (2)$

$\frac{63}{15}$
 945

793

$$\Rightarrow (2) \downarrow \Rightarrow 2 \Rightarrow (2)$$

$$\begin{array}{r} 3 \\ 1 \\ \hline 7 \\ 9 \\ 3 \\ 1 \end{array}$$

(✓)(✓) ✓
 ✓ Self Study
 ✓ Mentor

(7)

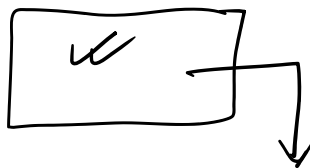
$$85 \times 87 \times 89 \times 91 \times 95 \times 96$$

$$\Rightarrow \frac{00}{(666)} 94732$$

$\begin{array}{r} 1 \\ 2 \\ 3 \\ \hline 6 \end{array}$

6 36 216

(25) (31) (1)



OAC

272 ISI 117 JMB
 CSAT CAT JEE main
 L.P. 6m
 (circled symbols and arrows)

(JEE)

(p) prime (numbers) 3, 7, 11

$P \neq \text{prime}$ (follows) 3, 7,
 $C = \text{Even}$

$$\frac{3 + \cancel{8}}{\cancel{8} - 3} \Rightarrow \frac{11}{5}$$

IPS

$\frac{b+c}{b-c}$ Even X
 $2b+c$ odd X
 bc odd X

$2 \times 7 \Rightarrow 14 \neq \text{even}$
 $\Rightarrow \text{Even}$

NHO

CSAT \rightarrow

$7 (+) 9 (-) 10 = 8$ $\leftarrow 26$
 $9 (+) 11 (-) 30 = 5$ $\leftarrow 50$
 $11 (+) 17 (+) 21 = 13$ $\leftarrow 13$
 $23 (+) 4 (+) 15 = 22$ $\leftarrow 48$
 2, 3, 4, 6, 8,

#

$$\frac{7x + 96}{x}$$

Labur das. $7 \cdot 2 + 96$

$$\frac{7 \cdot 2 + 96}{2}$$

$$\frac{7 \cdot 4 + 96}{4}$$

10/11/12/∞

$$\frac{7 \cdot 3 + 96}{3}$$

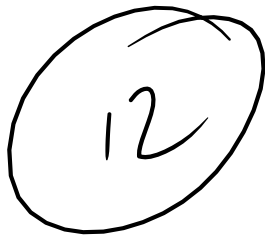
$$\frac{7 \cdot 8 + 96}{7}$$

$$96 = 32 \times 3 = 2^5 + 3$$

$$\frac{7 \cdot 11 + 96}{11}$$

$$10 = 2^5 + 3$$

$2 \rightarrow$



1, 2, 3,

$$\begin{array}{r} 1, 2, 3, 6, 8, 12, 24, 48, 96, 16 \\ \hline 32, \end{array}$$



$$\begin{array}{r} 7.H.76 \\ \hline 7.48+96 \\ \hline 8 \\ 7.96+96 \\ \hline 96 \end{array}$$

Sum 0