COMP 4/1/24

Thursday, January 4, 2024 8:12 AM

Quant..

Visual Pattern

$x-1=0$

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

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

Yes ✓

~~200~~ 200

145-150

140-160 ✓

130-135 ✓

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

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

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

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

#

$10! = 10\times9\times8\times7\times6\times5\times4\times3\times2\times1$

$2! = 1\times2$

$50! = 50\times49 - - - \times1$

IES

$102! \rightarrow$

$\frac{15300}{50} = 300$

15000

1 2 3 4 . . . .

$1! = 1$

$2! = 2$

$3! = 6$

$4! = 1\times2\times3\times4$

$5! = 12345 = 120$

35!

1 2 3

0

2 3 5

12!

2×5 10

2

4

$22! =$ 10 12 15 20

1 2 5

5, 25 → 5

5·75 → (3)

(5)·99 → 75

35! → $\left[\frac{35}{5}\right]$ → 7 + ~~4~~

Gif

→ $\left[\frac{35}{5}\right]$

$\left[\frac{35}{5}\right] + \left[\frac{35}{25}\right] + $ ~~$\frac{35}{125}$~~

= 7 + 1

→ (8)

48! → $\frac{48}{5} + \frac{48}{25} +$ X

→ 9 + (1)

→ (10)

5×(5)

1.2. … 5	10	12	15	20	22	25	30	32	35
1	2		3	4		5	1		1

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

← 2023

265
266
267
268

1987
− 14
1973 / 8 → (36)

2023
2023
36
1987

260.270

22 → (3)

Apples & Lemons

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

Angles & Demons

6hr $1\frac{1}{2}$ hr

$22! \to$ 7B $\to$? highest Power

$22! \Rightarrow$ $9!$

1.2.3. . . . (7). . . . (14). . . (21).22 $\to 7^3$

$\frac{22!}{~~7~~} \to 3$ $\frac{29!}{~~7~~} \to 4$ $\frac{41!}{7} \to 5$ $\frac{48!}{7} \to 6$

$102! \to$ (11) highest Power

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

$\to$ (9)

2023

Quant

WBCS $\to$ CSAT

CSAT > Banking > Mix >

Railway > SSC

$(57242)^{983 \times 689 \times 4321}$

$\Rightarrow 2^3$ $8^1 \rightarrow 8^1 \rightarrow 8$

2, 4, 8, 16, 32, 64, 128

20000–25000

$\frac{89}{4} \rightarrow 1$

6

$(57242)^{9 \times 7 \times 5 \times 3 \times 1}$

9, 7, 5, 3, 1

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

$\rightarrow 2$

$2^3 = 8^2 = 64$

$2^{3.2} = 2^6 = 64$

63 × 15 = 945

27 × 27 = 729

$3^2 = 9$

$3^3 = 27$

$3^{2.3} = 3^6 = (3^3)^2 = 27^2 = 729$

$3^2 = 9$

$3^3 = 27$

$3^{2 \cdot 3}$

$= 3^3$

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

$9^3 = 729$

$(3^2)^{x}$

$(57242)^{9 \cdot 7 \cdot 5 \cdot 3 \cdot 1}$

945

$\Rightarrow (2)$

63 × 15 = 945

7, 9, 3

⇒ (2)

1

⇒ 2 → (2)

1
3
1
7
9
3
1

✓ Self Study

✓ Mentor

(7)

85 × 87 × 89 × 91 × 95 × 96

⇒ 00

$(666)^{94732}$

1
2
3
(6)

272

ISI

117 JAM

JEE Main

CSAT

CAT

6 36 216

(31)

(25) (1)

JEE

(P) = prime

3, 7,

p ≠ prime (common 3, 7,

C = Even

$\frac{p+c}{p-c}$ Even X

IPS

2p+c odd X

pc odd X

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

2×7 ⇒ 14 ≠ even ⇒ Even

NHO

CSAT →

7 + 9 + 10 = 8 ← 26

9 + 11 + 30 = 5 → 510 / 49 → 13

11 + 17 + 21 = 13

23 + 4 + 15 = 22 / 6 ← 412

2,3,4,6,8,

#

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

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

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

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

7·8+96

$\frac{49+96}{7}$

10/11/12/ ∞

96 = 32 × 3
= $2^5 \times 3$

7.H96

10

$= 2^5 \times 3$

x →

12

1, 2, 3,

1, 2, 3, 6, 4, 8, 12, 24, 48, 96, 16

32,

12

7.H 96

7.48 7 96

48

7.96 7 96

96

Sm 0