



CSAT

REASONING



BY – SHANTANU SIR

Figure Counting (चित्र गणना)

Types:-

1. Triangle (त्रिभुज) $\begin{cases} 1 \\ 2 \\ 3 \\ 4 \end{cases}$
2. Square (वर्ग) $\begin{cases} 1 \\ 2 \end{cases}$
3. Rectangle - आयत
4. Straight Line (सीधी रेखाएं)

Mix Question

Triangle (त्रिभुज)

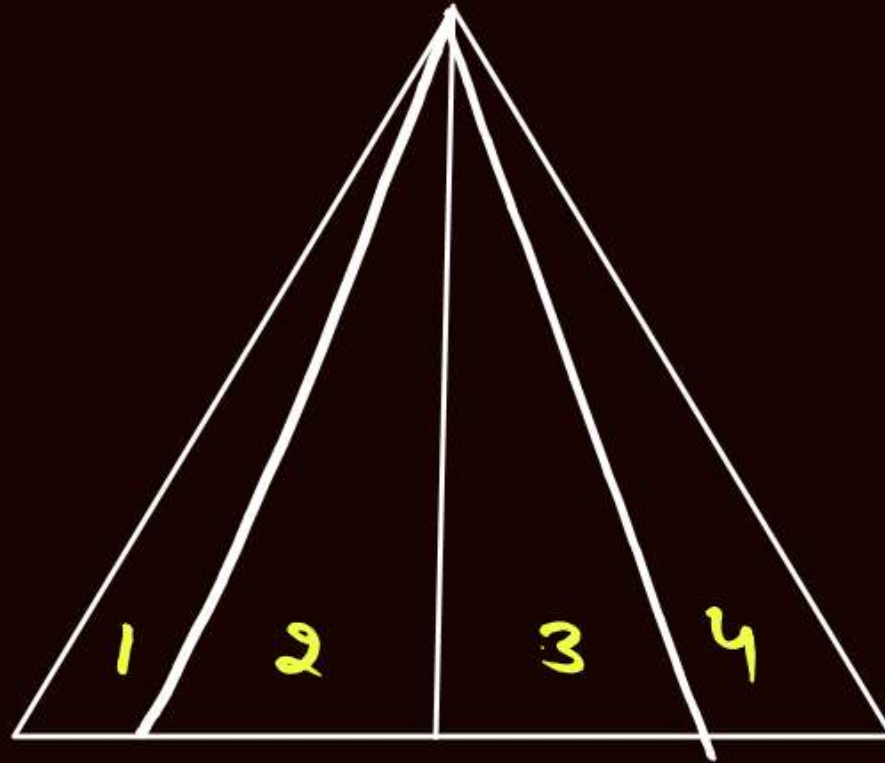
Case-1.

Formula:-

$$= \frac{n \cdot (n+1)}{2}$$

$$\frac{19 \times 20}{2}$$

$$= \boxed{190}$$



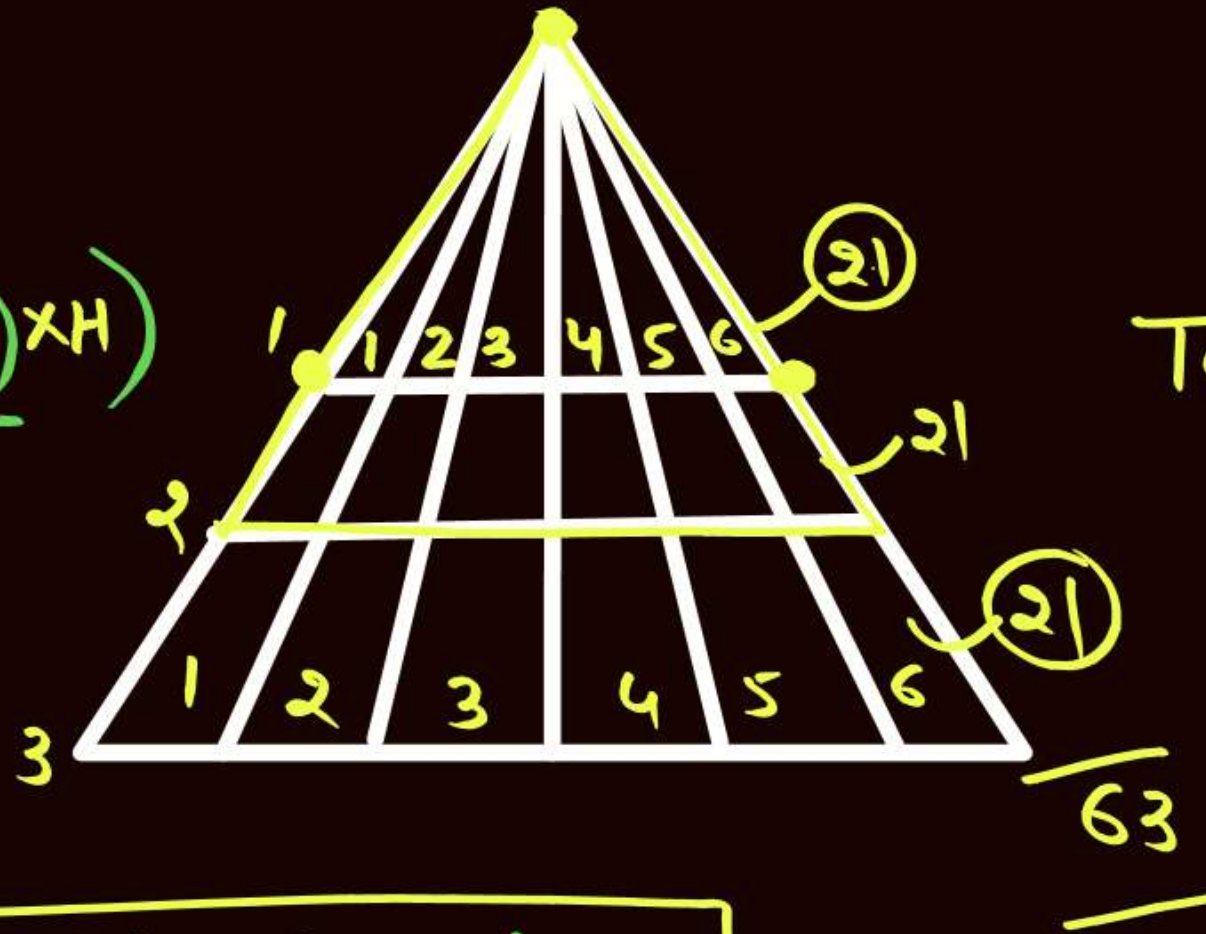
Total
Triangle = ?

n = number of Small Triangle.

$$1+2+3+4 = \boxed{10} \rightarrow \text{Ans.}$$

Case-2.

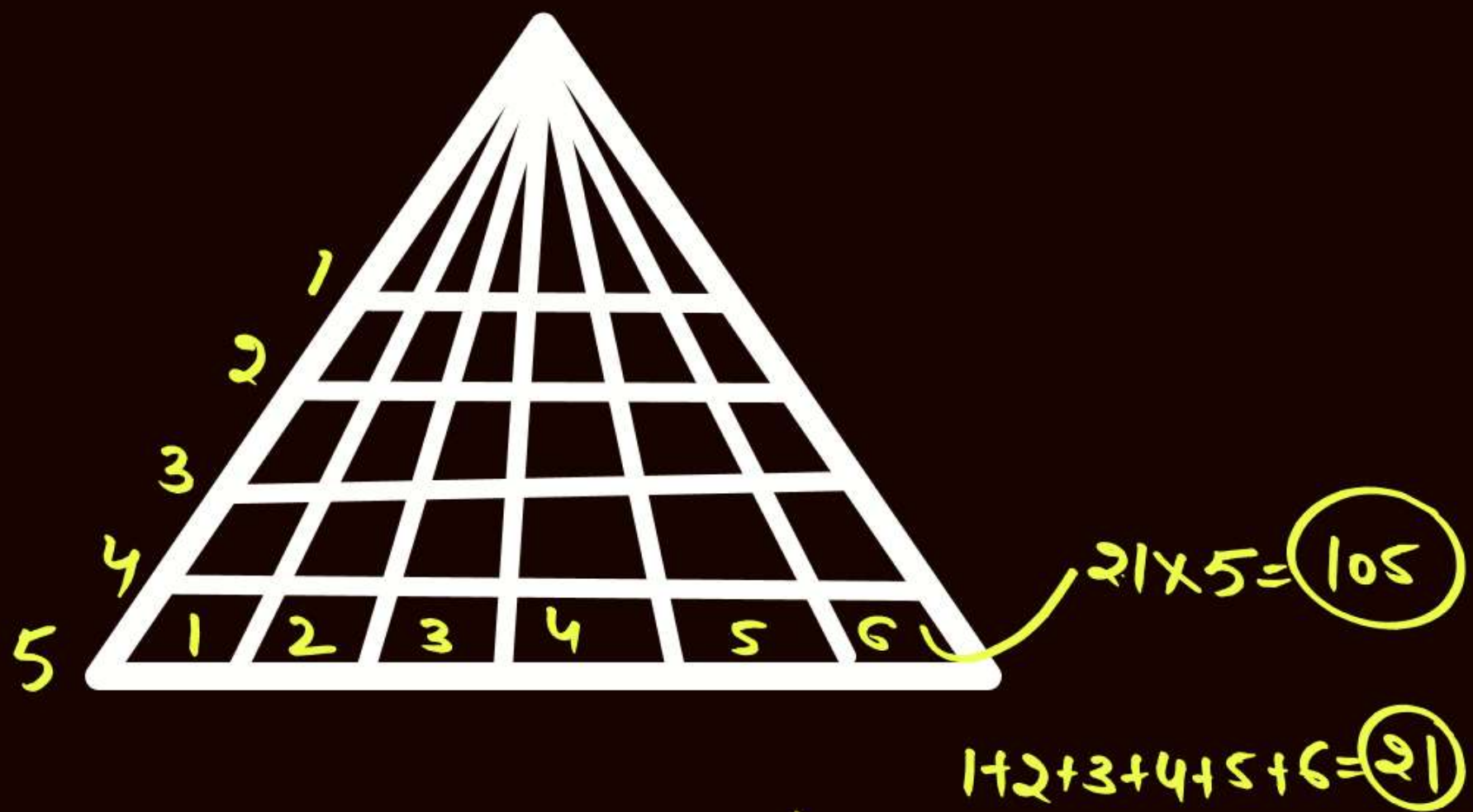
Formula: $\frac{(n \cdot (n+1) \times H)}{2}$



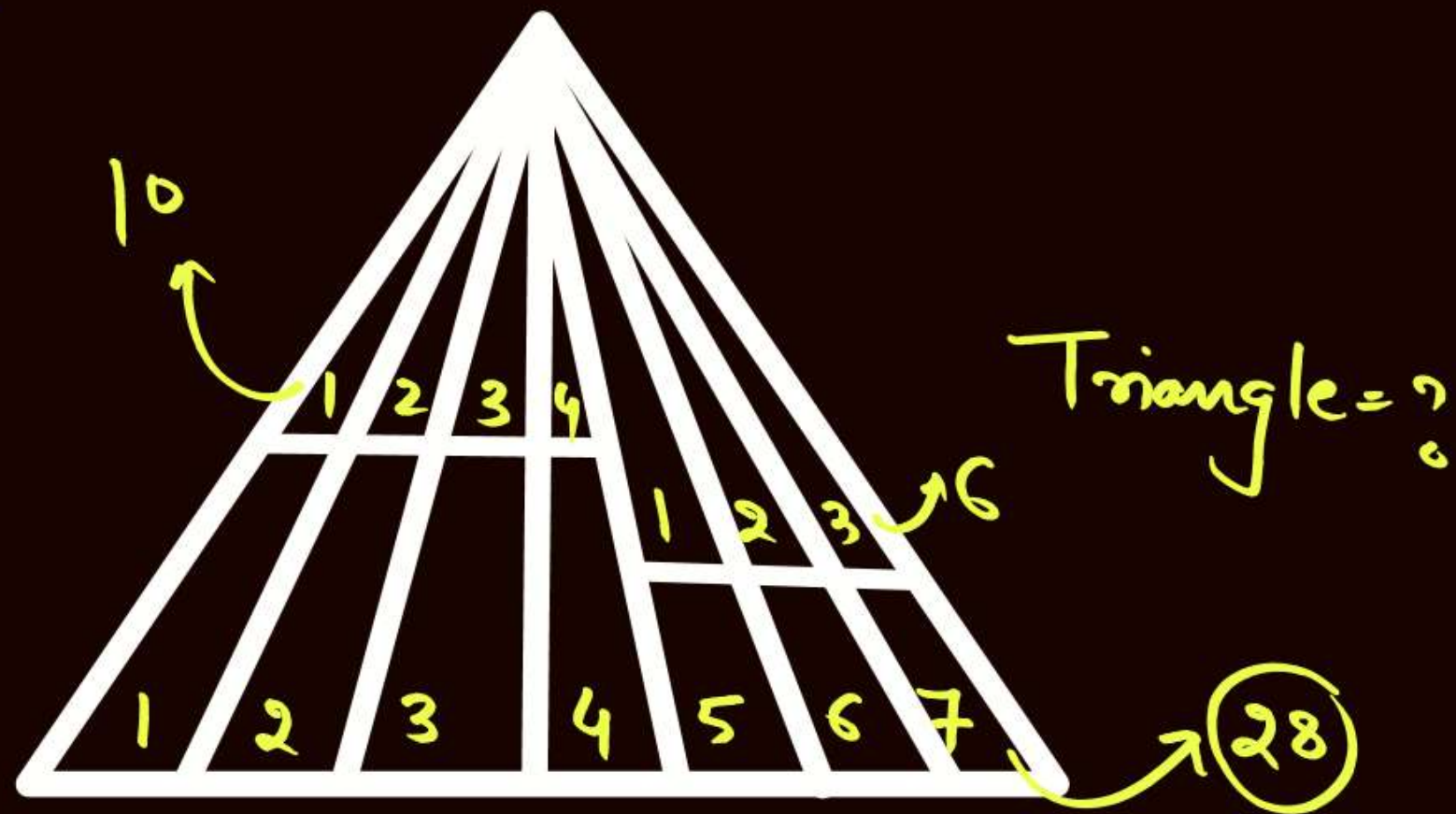
Total Triangle = ? **63**

H = **no. of Horizontal line.**

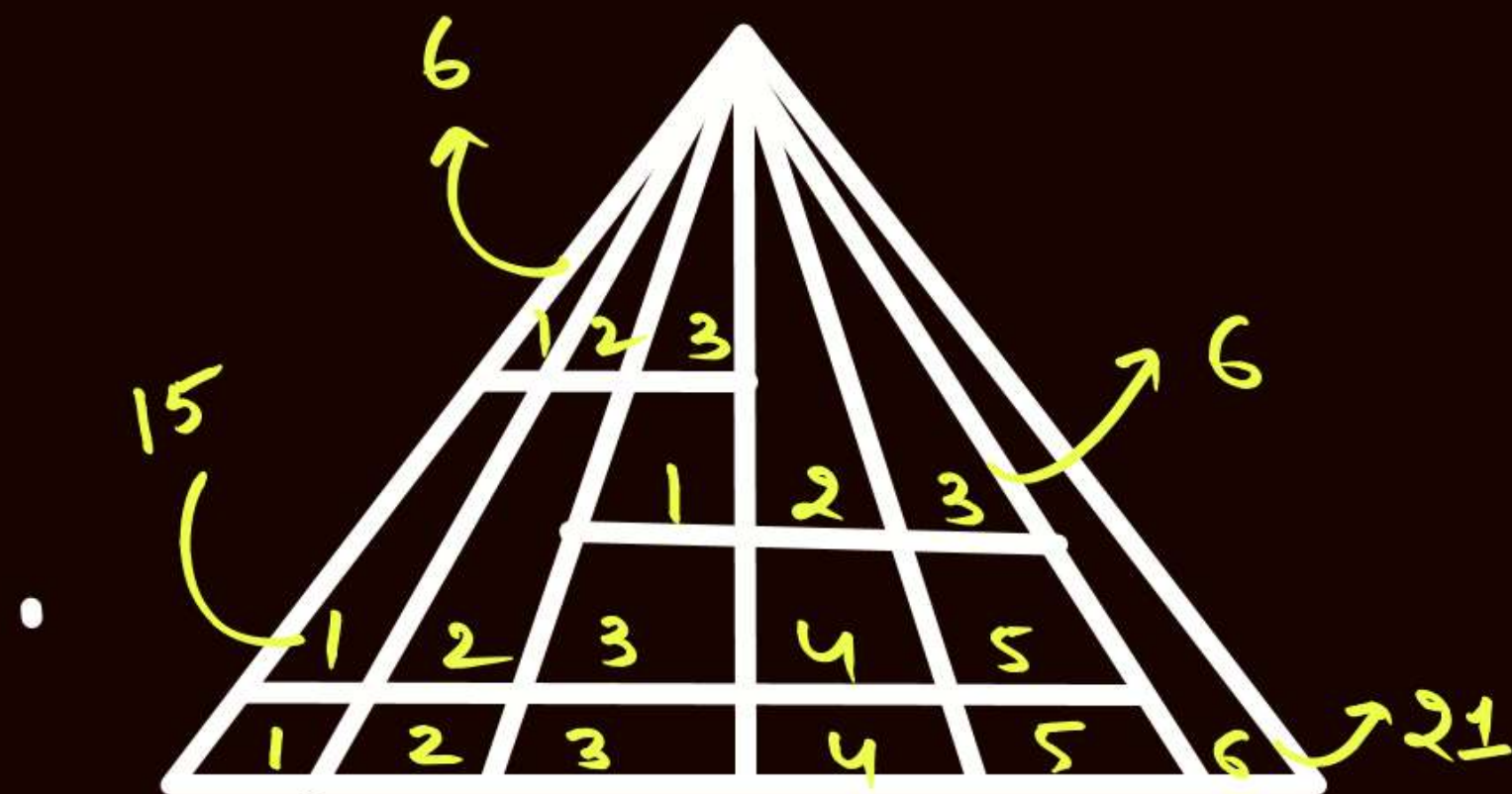
$$21 \times 3 = \mathbf{63}$$



Case-3.

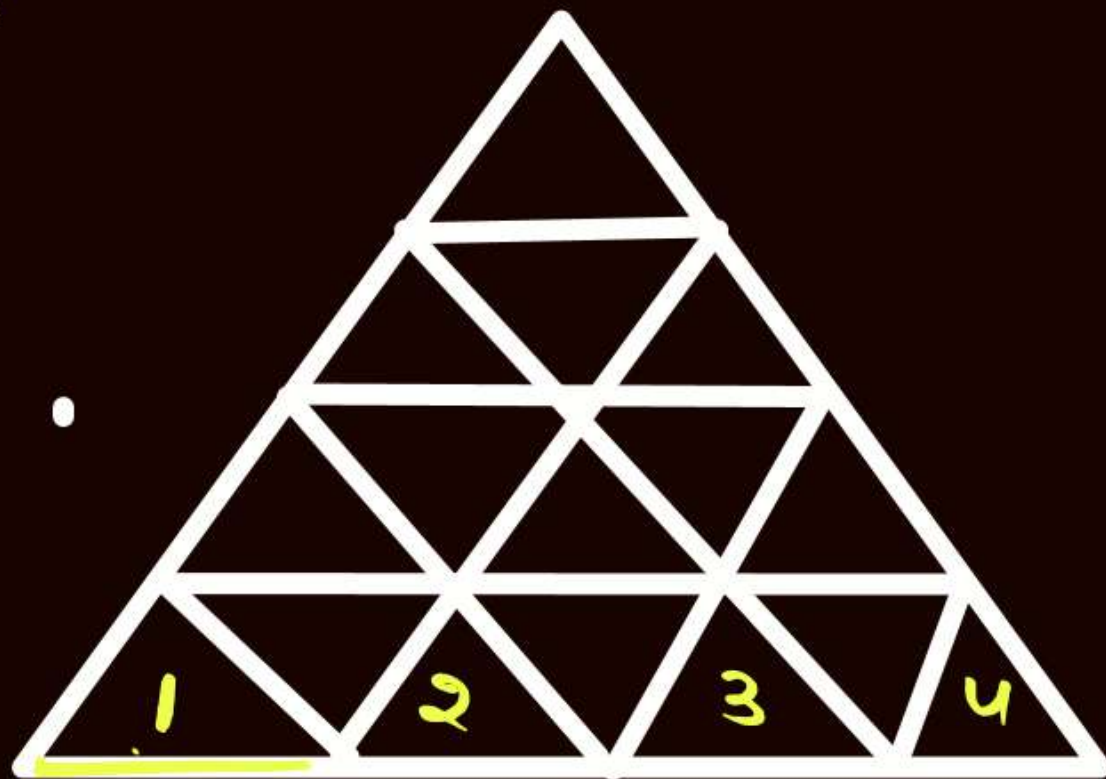


$$28 + 10 + 6 = \underline{(44)} \text{ Ans.}$$



$$21 + 15 + 6 + 6 = \textcircled{48}$$

Case-4:

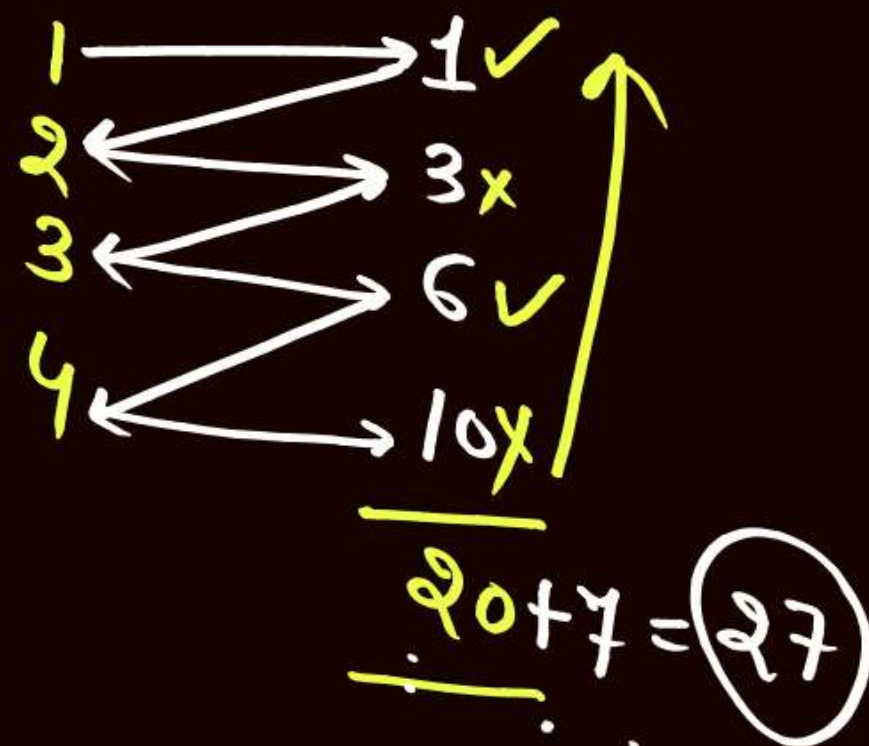


Triangle = ?



if Base = 6

$$\begin{array}{r} 56 + 22 \\ \hline 78 \end{array}$$



$$\begin{array}{r} 20 + 7 \\ \hline 27 \end{array}$$

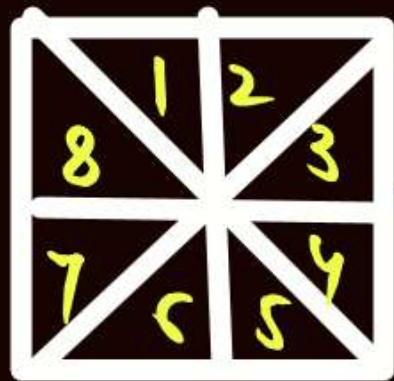
Mix Questions



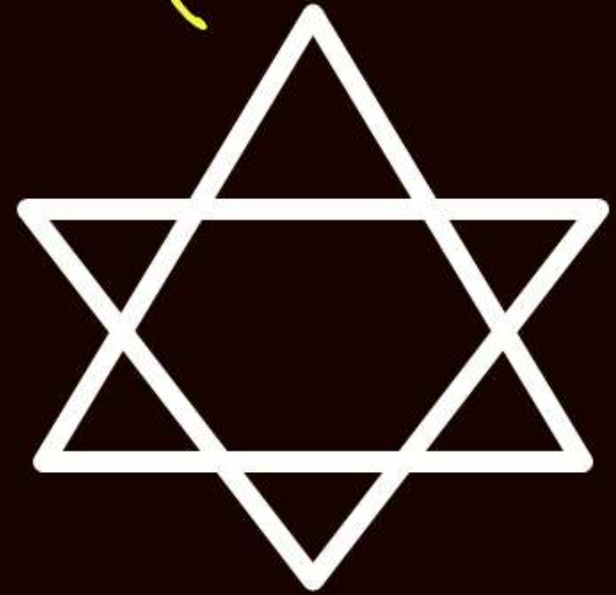
$$= 4 \times 2 = \textcircled{08}$$



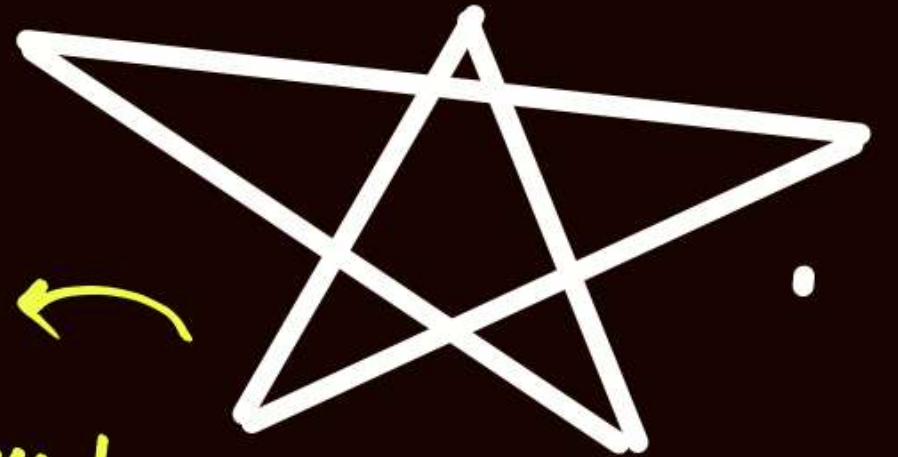
$$= 6 \times 2 = \textcircled{12}$$



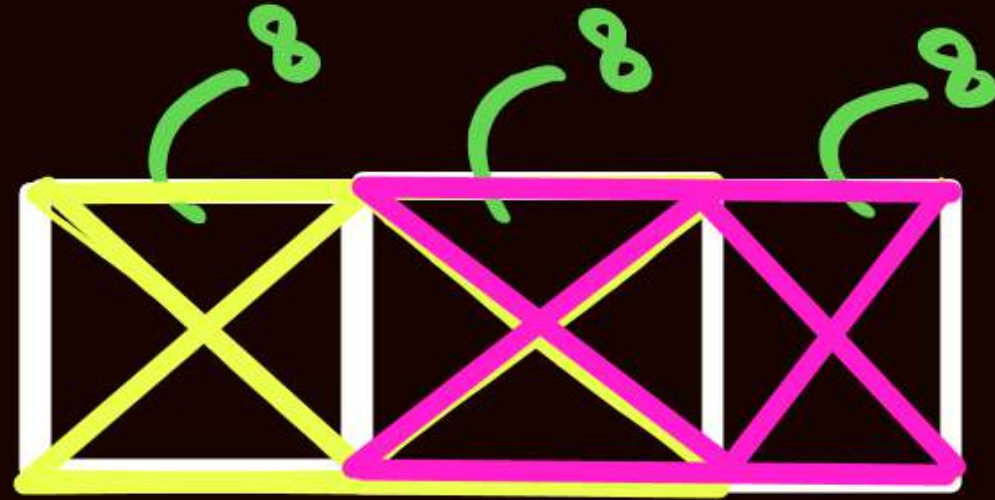
$$= 8 \times 2 = \textcircled{16}$$



8 Triangle



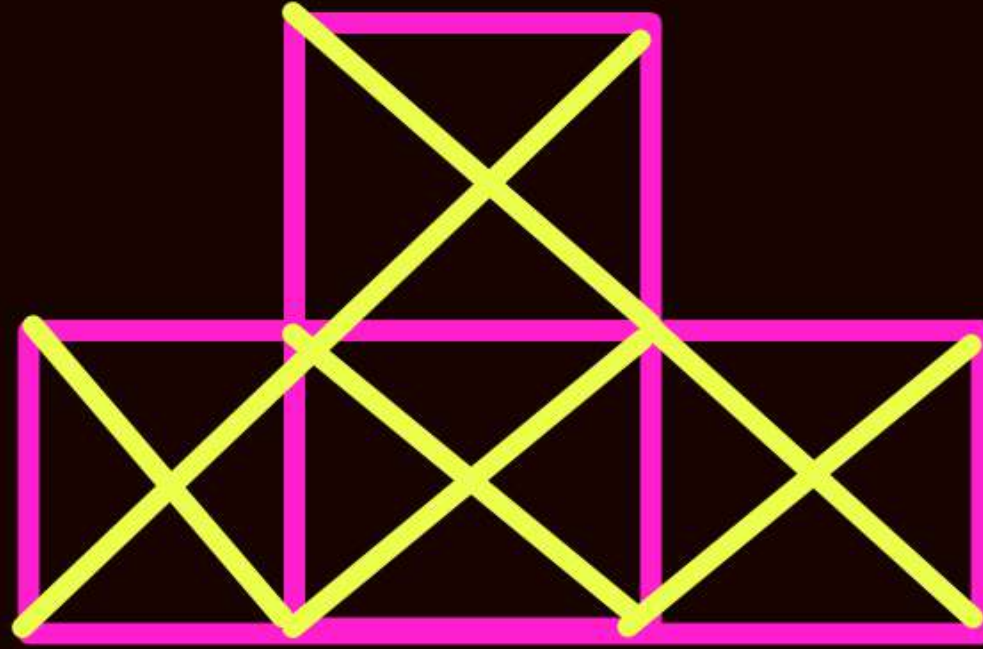
10 Triangle



$$= 24 + 4$$

$$= \textcircled{28}$$

•
Triangles = ?



Triangles = ?

for new work