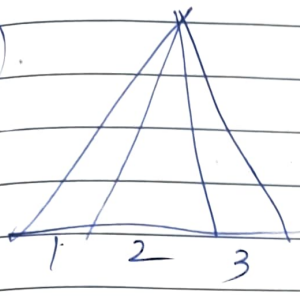
Count the number of triangle

1)

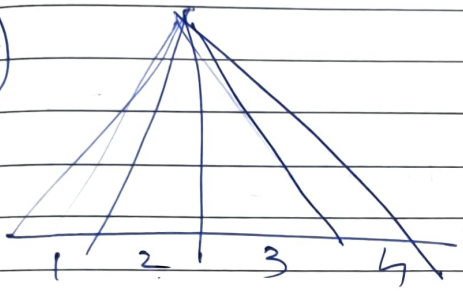


$1+2+3=6$

Or

$\frac{3\times 4}{2} = 6.$

2)



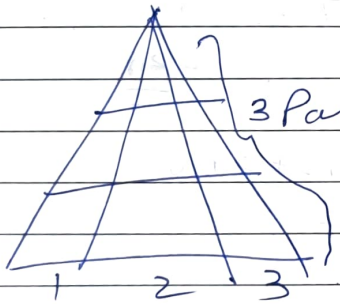
$1+2+3+4$

$= 10$

Or

$\frac{4\times 5}{2} = 10.$

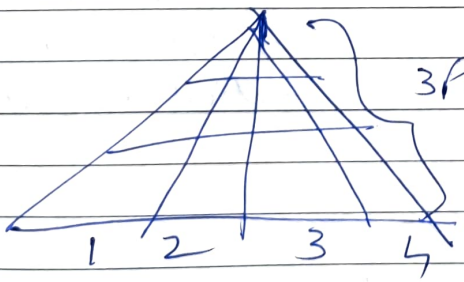
3)



$1+2+3=6$

$6\times 3 = 18$

4)

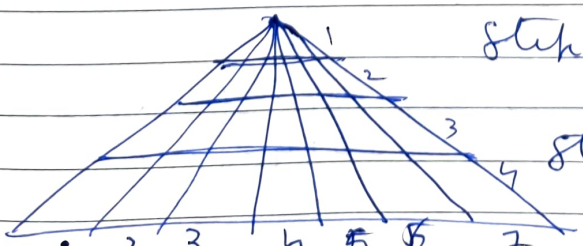


So,

$1+2+3+4 = 10$

Then, $10\times 3 = 30$

5)



Step 1: $1+2+3+4+5+6+7$

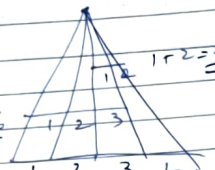
$= 28$

Step 2: 4 Part

So, 28×4

$= 112$

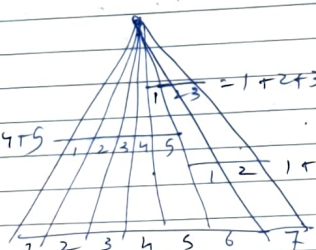
6)



$\Rightarrow 1+2+3+4 = 10$

Total $= 10+6+3 = 19$

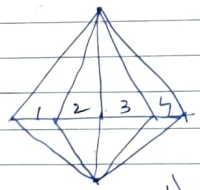
7)



$\Rightarrow 1+2+3+4+5+6+7 = 28$

So, Total $= 28+15+3+6$
$= 52$

8)



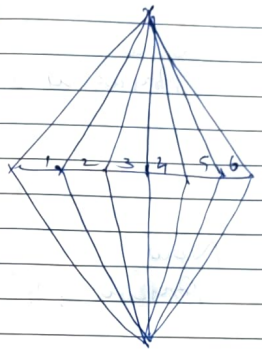
- Figure is almost symmetrical
- The central line is vertical absolutely

1) So, $10 \times 2 = 20$

2) The highest no is 4.

3) So, Total triangle
$= 20+4 = 24$

9)



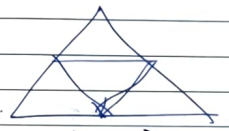
Note: The central line is absolutely vertical.

So, $1+2+3+4+5+6$
$= 21$.

Now, highest no $= 6$

So,
Total $= 21+6 = 27$

10)



Note: Base is divided into even parts.

Here $n = 2$

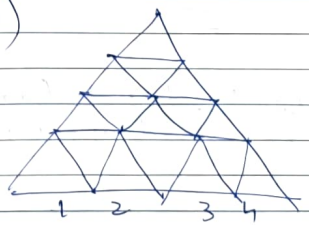
Formula: $\frac{n(n+2)(2n+1)}{8}$

$= \frac{2(2+2)(2\times 2+1)}{8}$

$= (2\times 4\times 5)/8$

$= 5//$

11)



Note: Base is divided into even parts.

Here $n = 4$.

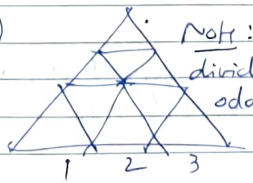
Formula: $\frac{n(n+2)(2n+1)}{8}$

$= \frac{4(4+2)(2\times 4+1)}{8}$

$= \frac{4\times 6\times 9}{8}$

$= 27$

12)



Note: Base is divided into odd parts.

Here $n = 3$.

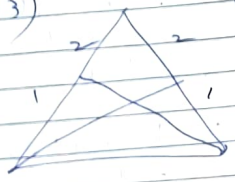
Here, formula is

$\left[\frac{n(n+2)(2n+1)}{8} - 1\right]$

$= \left[\frac{3(3+2)(2\times 3+1)}{8} - 1\right]$

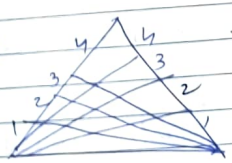
$= \frac{3\times 5\times 7}{8} - 1 = 13$

13)



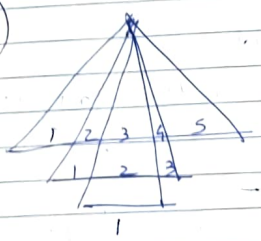
Now,
Anwn is $2^3 = 8$

14)



Now,
Anwn is $4^3 = 64$

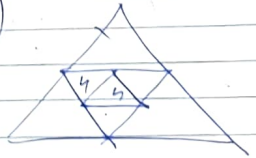
15)



1+2+3+4+5 = 15
1+2+3 = 6
1 = 1

= 22

16)

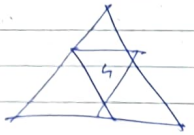


Note: 1 small triangle is denoted as Δ triangle

So,
$\Delta + \Delta + 1 = 9$

Here 1 is for the largest triangle

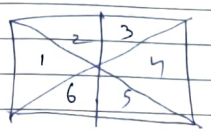
17)



Note: 1 small triangle is denoted as Δ.
So,
$\Delta + 1 = 5$

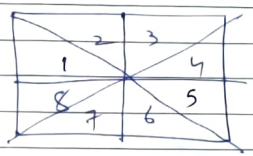
Here 1 is for the largest triangle

18)



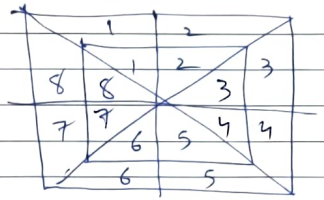
Here, the largest number = 6
So: $6 \times 2 = 12$
Anwn is 12 triangle

19)



Here, the largest number = 8
So; $8 \times 2 = 16$ triangle

20)



Step 1: In the smaller square, largest no. is 8.
So, no. of triangle = $8 \times 2 = 16$.
Step 2: In the larger square, largest no. is 8
So, no. of triangle = $8 \times 2 = 16$
∴ Total triangle = 16 + 16
= 32