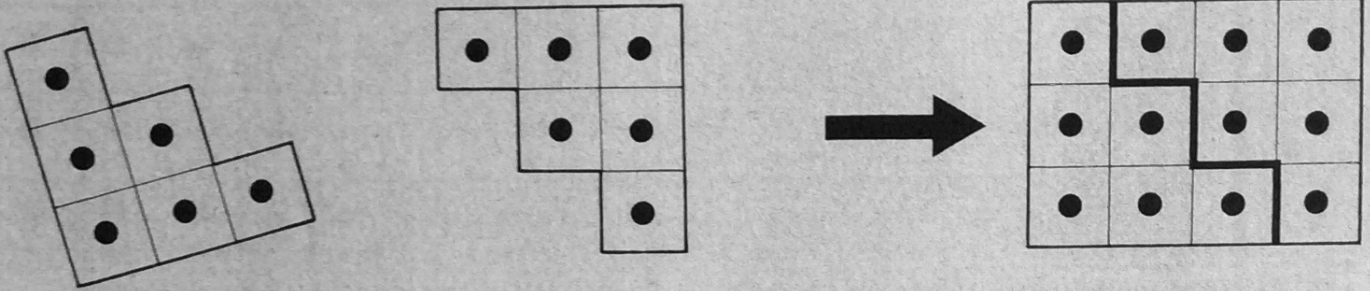


Triangle Numbers 2

Smile 0221

When you add a triangle number to itself you get a rectangle number.

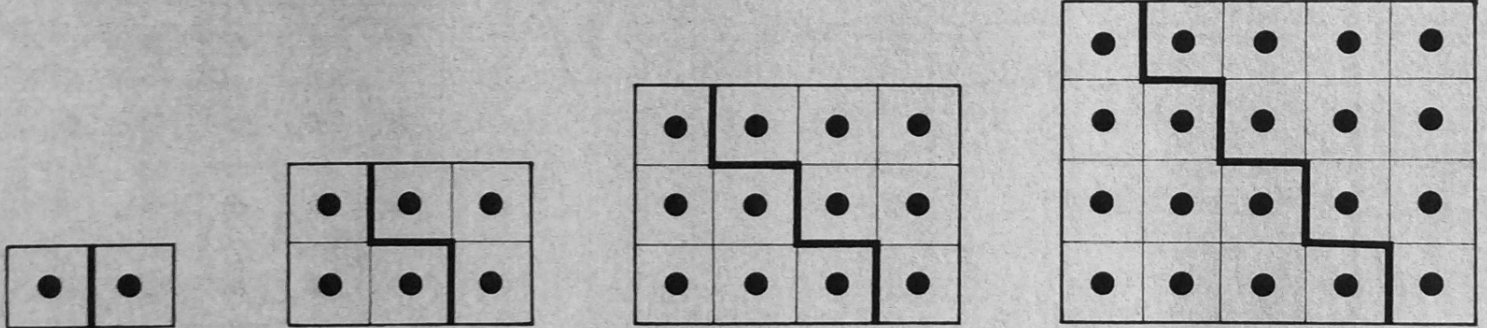
For example, with the 3rd triangle number:



$$2 \times 3\text{rd triangle number} = 3 \times 4 = 12$$

$$\text{So, } 3\text{rd triangle number} = \frac{1}{2} (3 \times 4) = 6$$

1. Copy this sequence and draw the next two patterns.



2. Use your drawings to complete this table.

- 1st triangle number is $\frac{1}{2} (1 \times 2) = 1$
- 2nd triangle number is $\frac{1}{2} (2 \times 3) = 3$
- 3rd triangle number is $\frac{1}{2} (3 \times 4) = 6$
- 4th triangle number is
- 5th triangle number is
- What is the 10th triangle number?

Do your answers agree with those you got for Triangle Numbers 1?