

1



2



3

Answer these questions:

COUNT THE TRIANGLES

NEAT 3

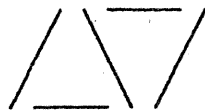
1. Draw the ~~first four~~ figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

Level 1

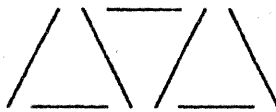
Toothpick Math



1



2



3

2
COUNT
THE
TOOTH PICKS

Answer these questions:

1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
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4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

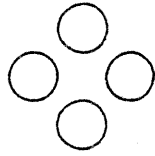
Level 2

Circle Patterns

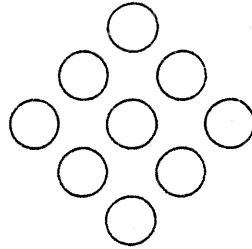
4



1



2



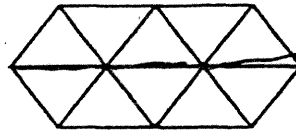
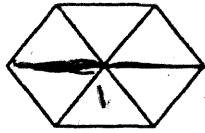
3

Answer these questions:

1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term (show your work).
6. Graph your pattern.

Level 11 #1

Diamonds & Triangles



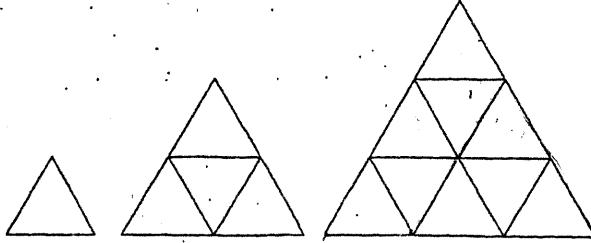
COUNT THE TRIANGLES

Answer these questions:

1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term (show your work).
6. Graph your pattern.

Number Patterns from Trains of Equilateral Triangles

Using green pattern blocks, form the first three triangles shown below. Notice that the triangles formed from the equilateral green triangles are also equilateral.



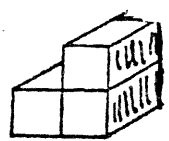
Answer these questions:

1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

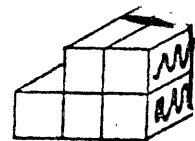
Level 1



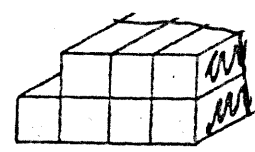
1st
1 Block



2nd
3 Blocks



3rd
5 Blocks



4th

use single
Blocks
only (10)

Answer these questions:

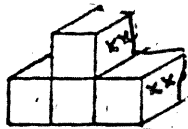
1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
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5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

Level
2



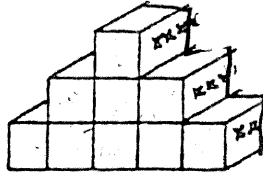
1st

1 Block



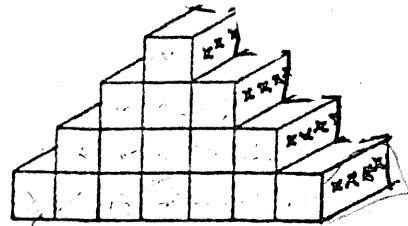
2nd

4 Blocks



3rd

9 Blocks



4th

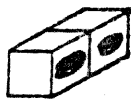
12

Answer these questions:

Single Blocks only

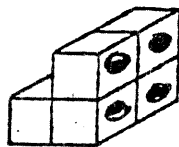
1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

Level 1



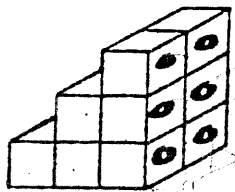
1st

2 Blocks



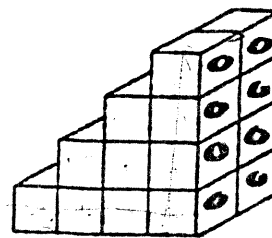
2nd

6 Blocks



3rd

12 Blocks



4th

20 Blocks

14

Answer these questions:

1. Draw the first four figures/terms of the pattern.
2. Create a t-table or chart to show the pattern.
3. Find the pattern's rule and express it algebraically (if possible).
4. Describe how the pattern is growing/changing (in words).
5. Use the rule to find the 10th term numbers (show your work).
6. Graph your pattern(s).

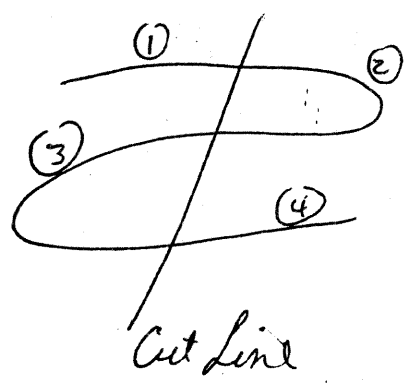
Level
3

Patterns Investigations

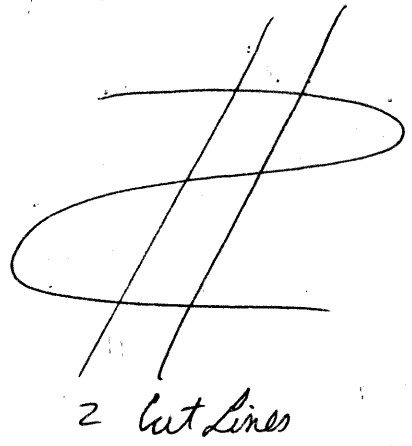
String Cutting B

Do A 1st

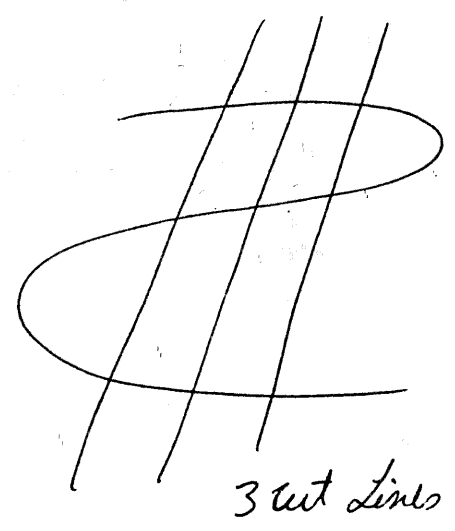
Fold a piece of string in thirds. While it's folded, make 1 cut. How many pieces do you have? What if you made two cuts, how many pieces would you have? 3 cuts?



4 pieces



7 pieces

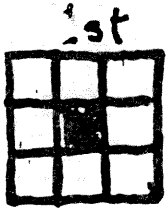


10 pieces

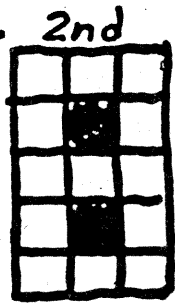
Level 2

Flagging a Pattern

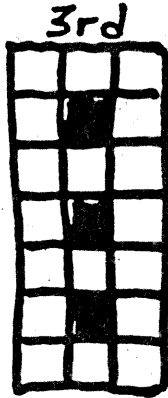
Name 18



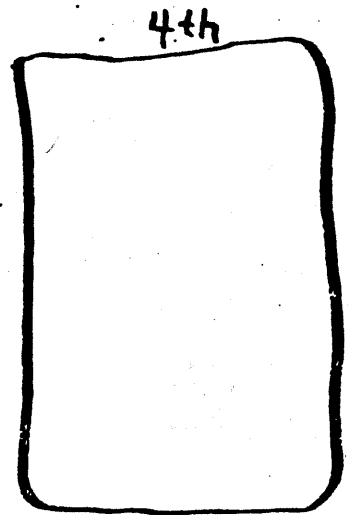
1 dark cube
8 light cubes



2 dark cubes
13 light cubes



3 dark cubes
18 light cubes



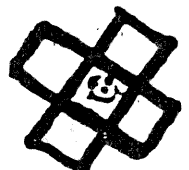
— dark cubes
— light cubes

COUNT LIGHT SQUARES

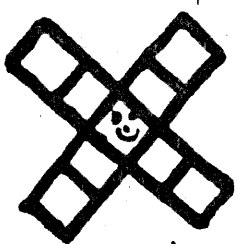
Level
2

A "Cross" Flower Pattern - Name Lo

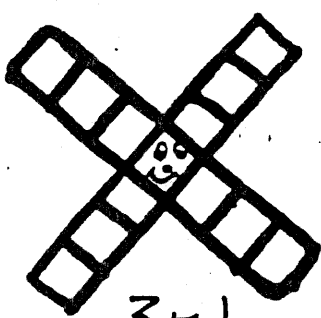
(Just joking. They're really quite happy.)



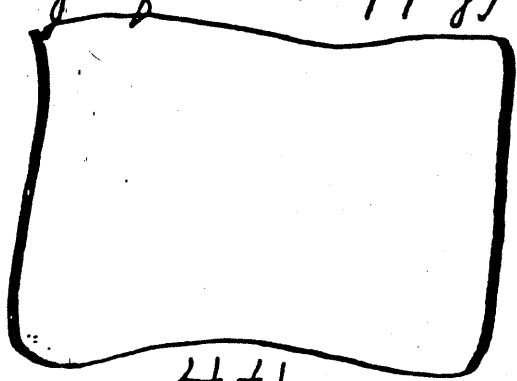
1st
5 squares



2nd
9 squares



3rd
13 squares



4th
— squares

Level 2