Search for E. T. (Equilateral Triangle)

Check out the new Search for E. T. (Equilateral Triangle) puzzle book series designed by myself, Daniel Thomasson on August 3, 2015:

      Vol. 1 – Numbers   Vol. 2 – Elements   Vol. 3 – Pi

   Vol.4 – Phi   Vol. 5 – e   Vol. 6 – Languages

   Vol. 7 – Pictures (Full Color)

All books contain 100 puzzles except for Elements has 118 puzzles. Each puzzle may have one or more triangle solutions up to a maximum of eighteen solutions in the books.   Visit http://www.danthomasson.com or http://www.amazon.com to see the books.

Solving puzzles is done by finding all the equilateral triangles within the main triangle where the three vertices of each triangle have the same number, letter, or picture as shown below.

The triangle on the left has the number '2' on each vertex of a smaller triangle within the main triangle and the letter 'a' for each vertex on the right triangle. Upper-case letters must match only other upper-case letters if found in the puzzles.
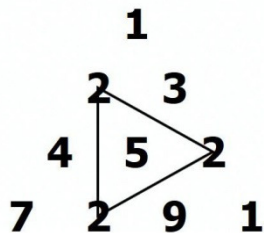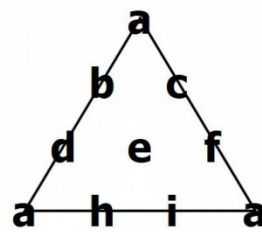

Example 1   *Example 2*

Draw lines connecting the numbers '2' as shown in *Example 1* and the letters 'a' as shown in *Example 2* making equilateral triangles. Continue this process for all other equilateral triangles having identical values for each vertex within the main triangle. If all 66 points of the main triangle have the same value, 715 equilateral triangles can be found. Each example that follows has five triangle solutions.
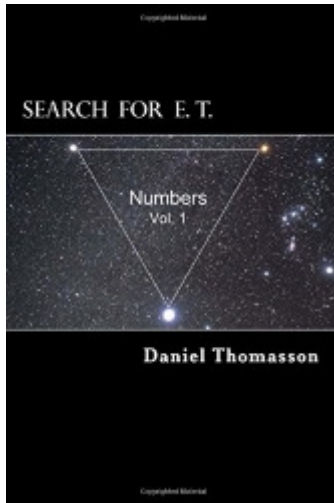
```
                3
              0   0
            5   4   9
          8   2   5   7
        0   4   3   3   9
      0   5   5   3   5   7
    0   1   6   8   6   5   3
  1   2   0   5   2   6   4   9
 5  6   1   4   8   5   7   2   4
9   2   5   7   3   8   6   2   0   6
9   1   7   4   0   3   6   9   5   2   1
```
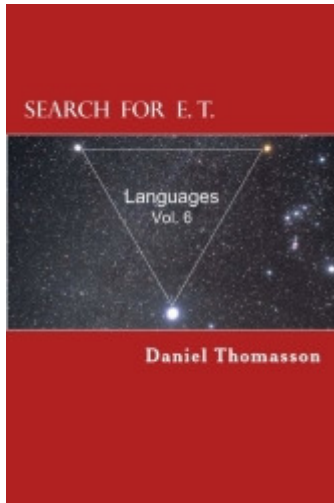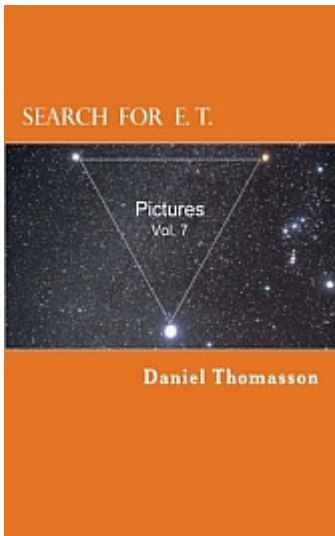
Puzzle 1
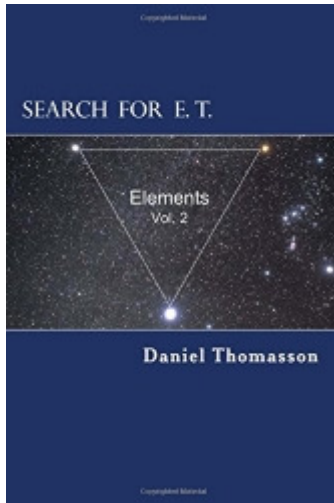
t
r a
n s i
t i o n
m e t a l
c o b a l t
t r a n s i t
i o n m e t a l
c o b a l t t r a
n s i t i o n m e t
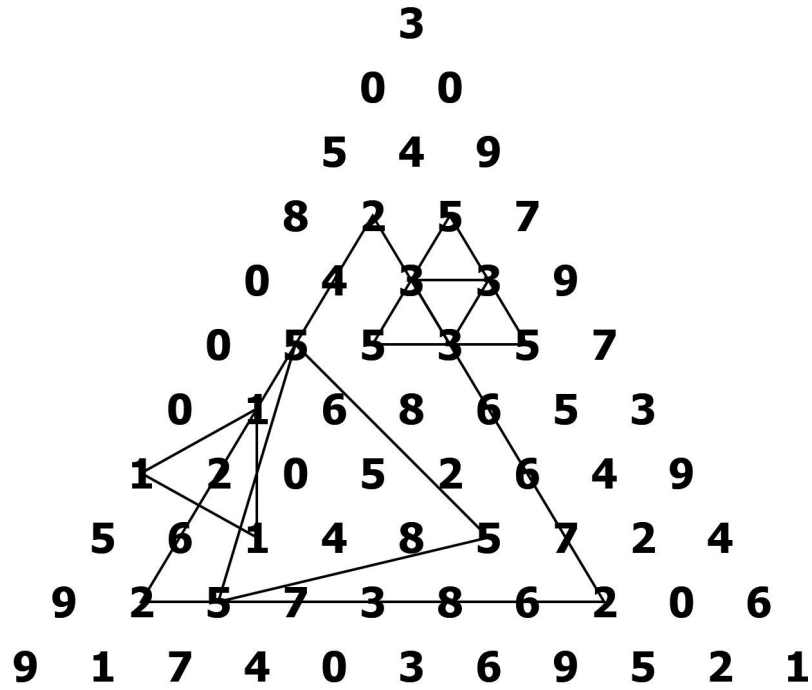a l c o b a l t t r a

Puzzle 2

Puzzle 3

Puzzle 4

3

0 0

5 4 9

8 2 5 7

0 4 3 3 9

0 5 5 3 5 7

0 1 6 8 6 5 3

1 2 0 5 2 6 4 9

5 6 1 4 8 5 7 2 4

9 2 5 7 3 8 6 2 0 6

9 1 7 4 0 3 6 9 5 2 1

Solution 1

t

r a

n s i

t i o n

m e t a l

c o b a l t

t r a n s i t

i o n m e t a l

c o b a l t t r a

n s i t i o n m e t

a l c o b a l t t r a
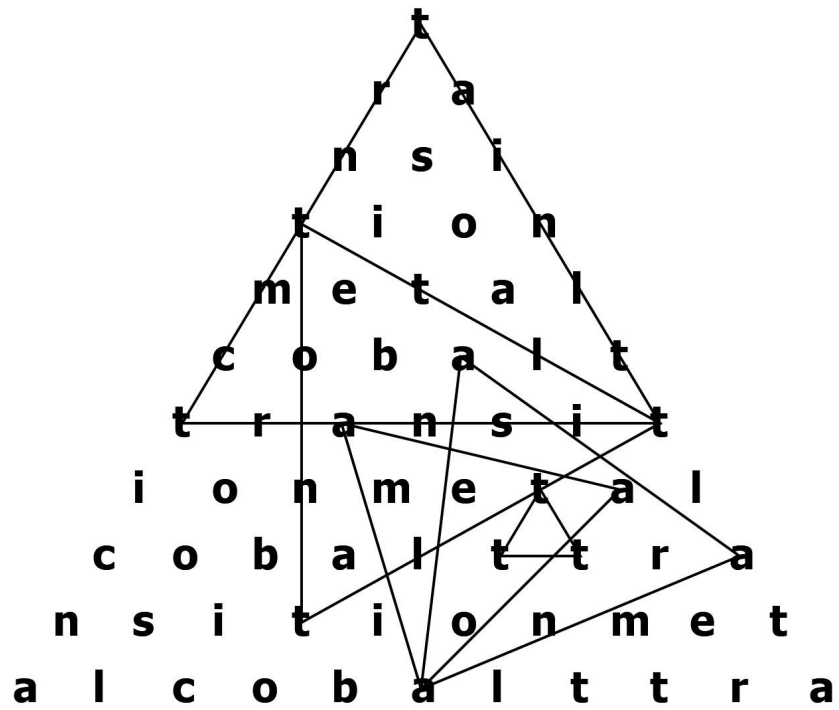
Solution 2

Solution 3

Solution 4