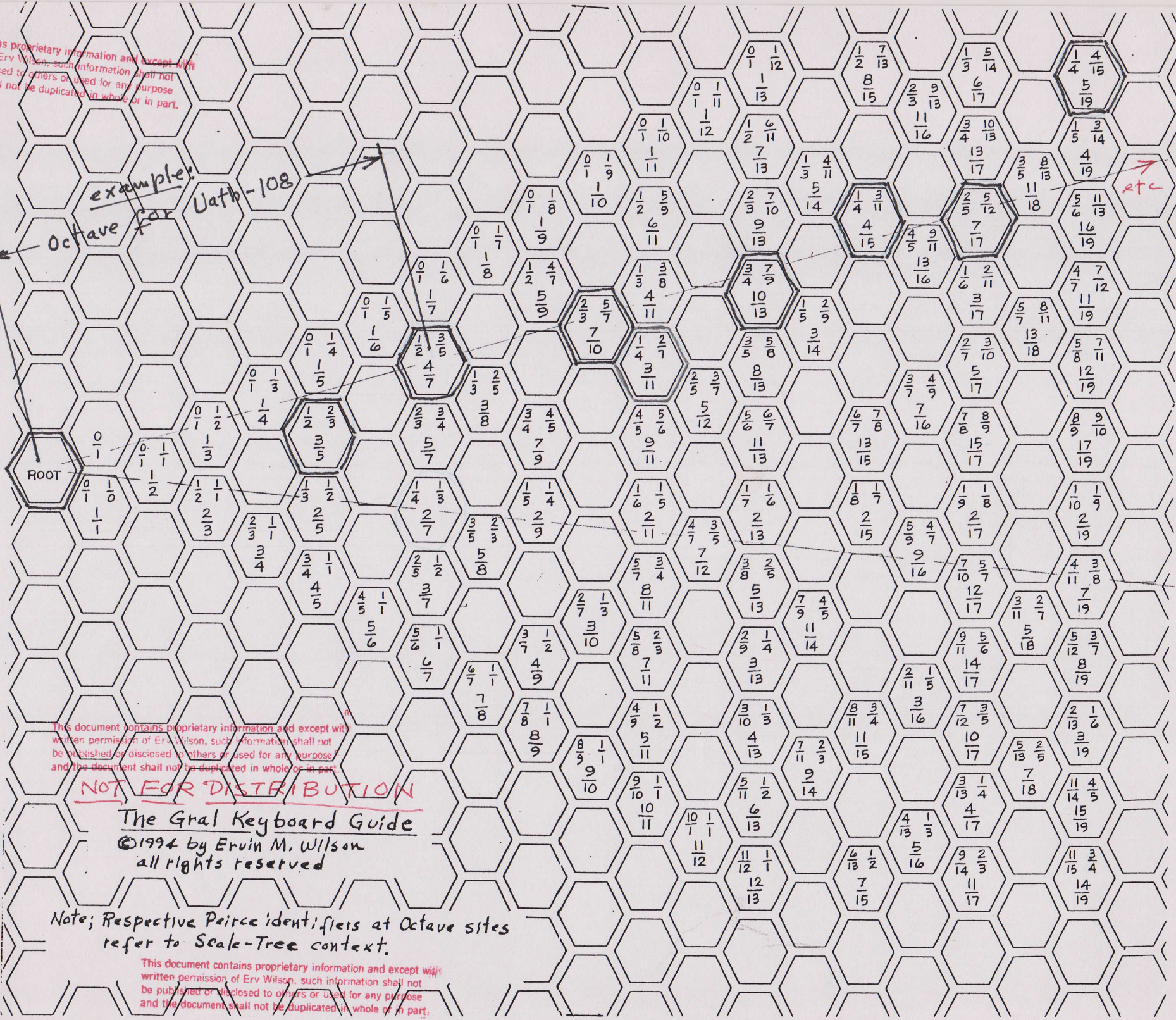


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Outlined in black are several other 8ve sites, in relation to a common root, which are nearly parallel to 4, 8ve (uath) 9 and which I have found to be resourceful. Annafated 19Mar 98, Erv Wilson



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The Gral Keyboard Guide

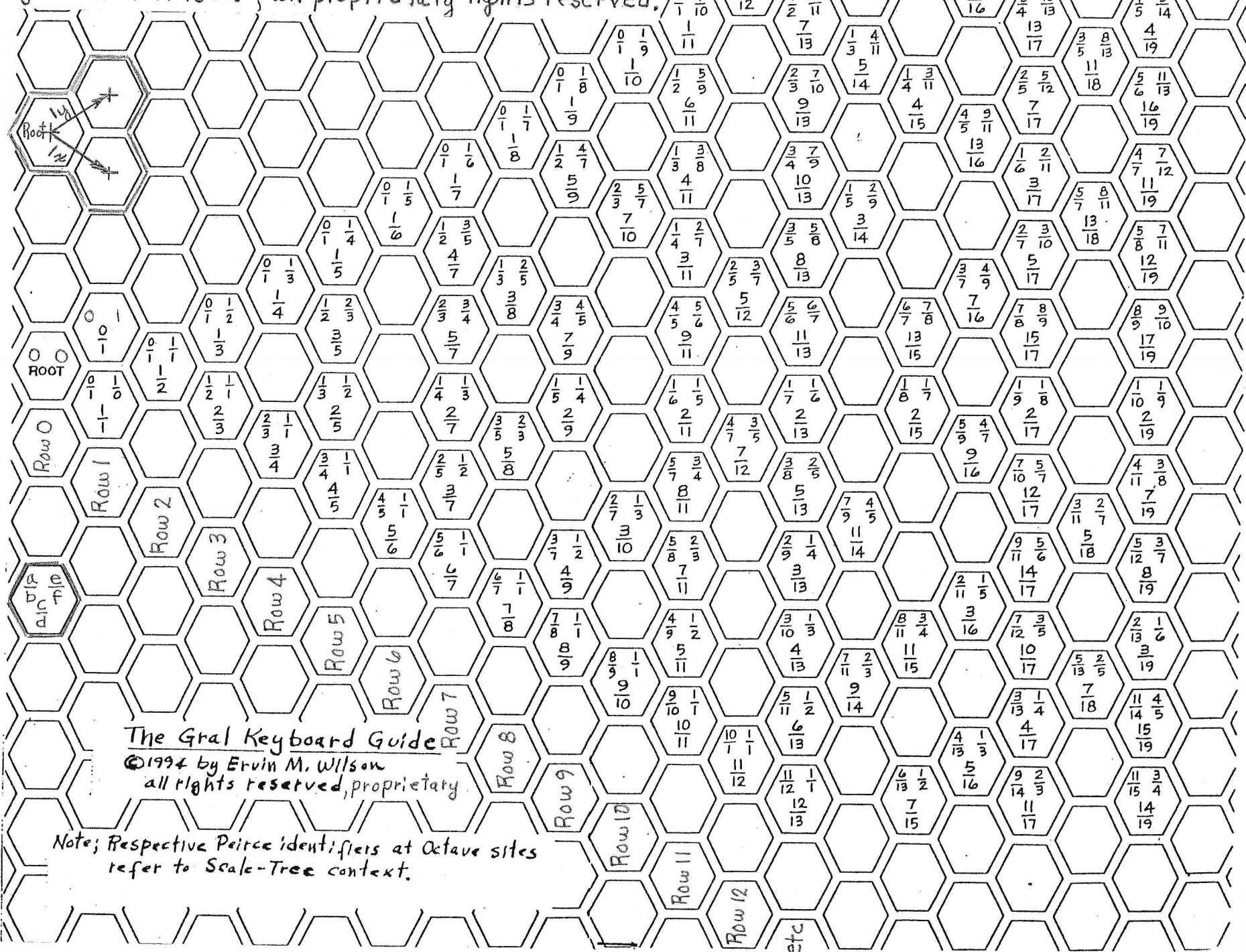
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Note; Respective Peirce identifiers at Octave sites refer to Scale-Tree context.

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DIOPHANTINE TRIPLETS and x, y Coordinates, Applied to the GRAL KEYBOARD, Co-Prime Format.

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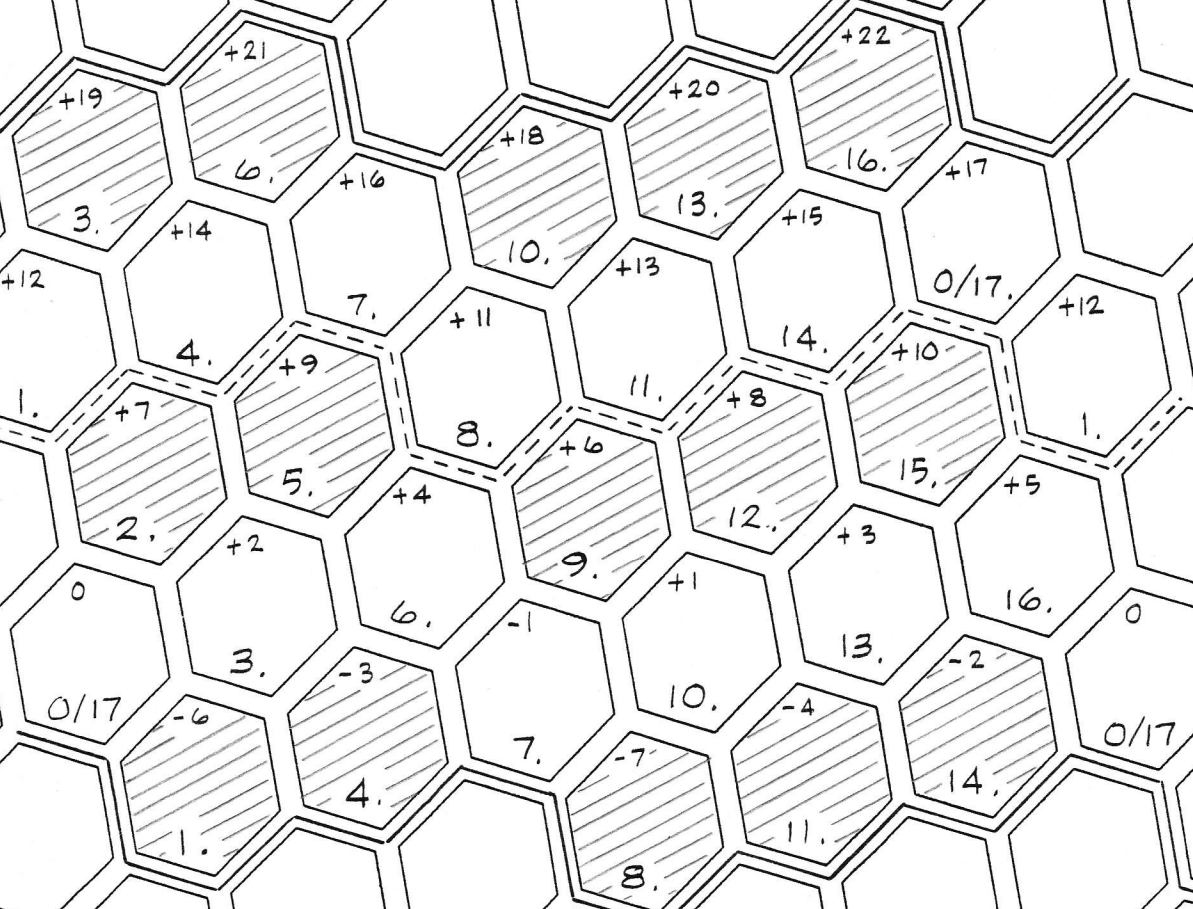
The Gral Keyboard Guide
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Note; Respective Peirce identifiers at Octave sites
refer to Scale-Tree context.

AILM 29

4/7 Keyboard, 10/17 Scale

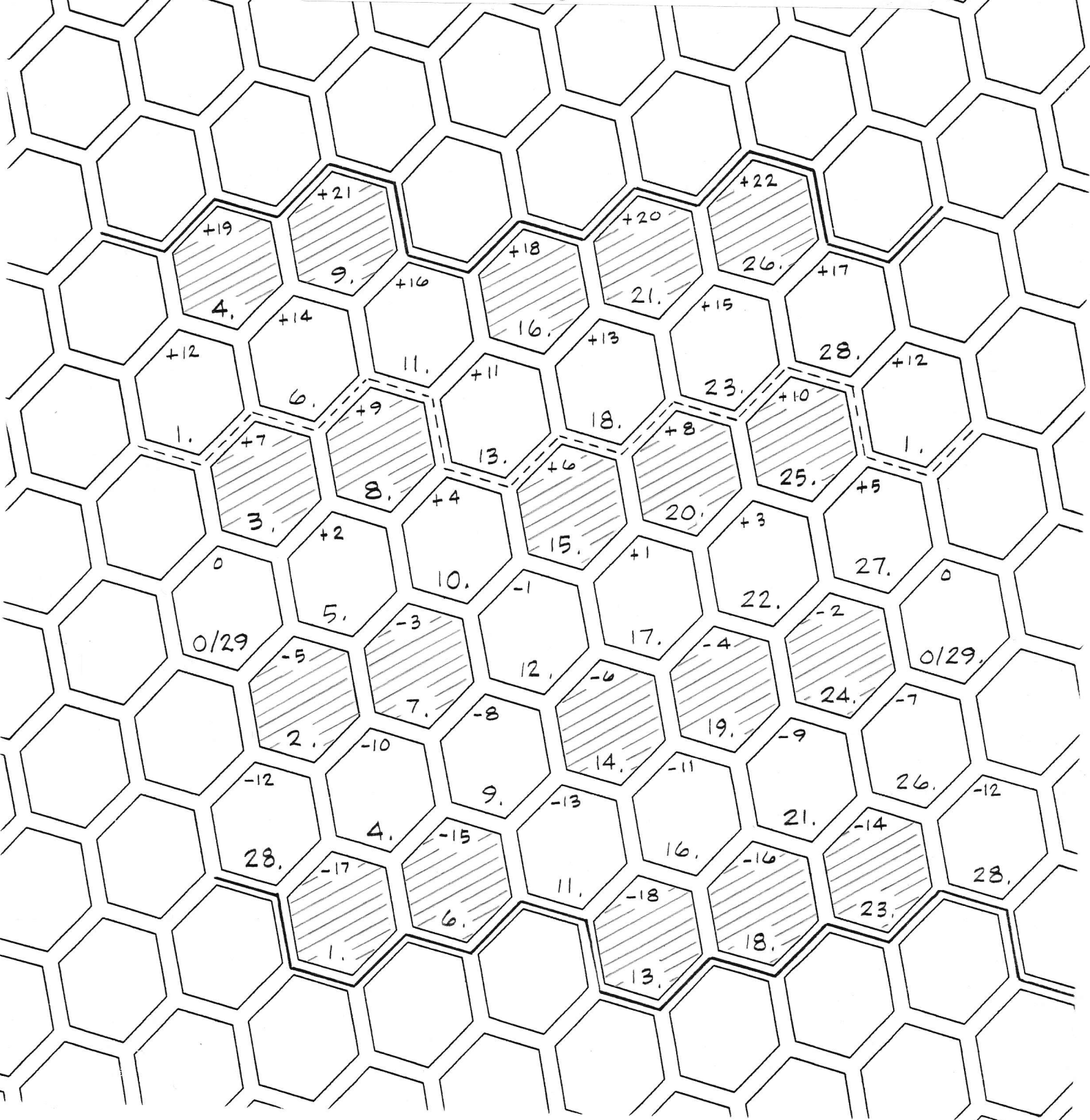
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BETH 41

4/7 Keyboard, 17/29 Scale

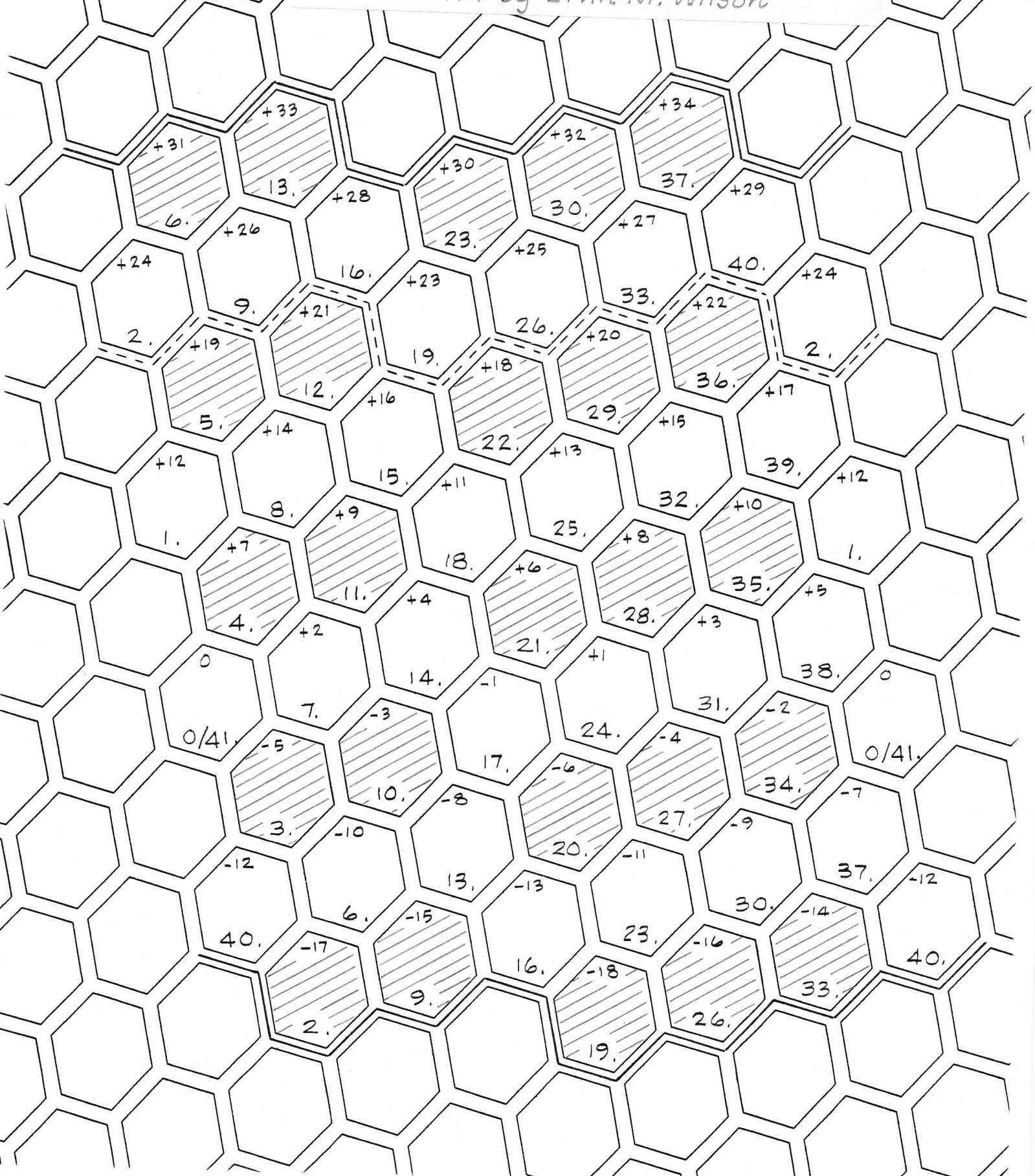
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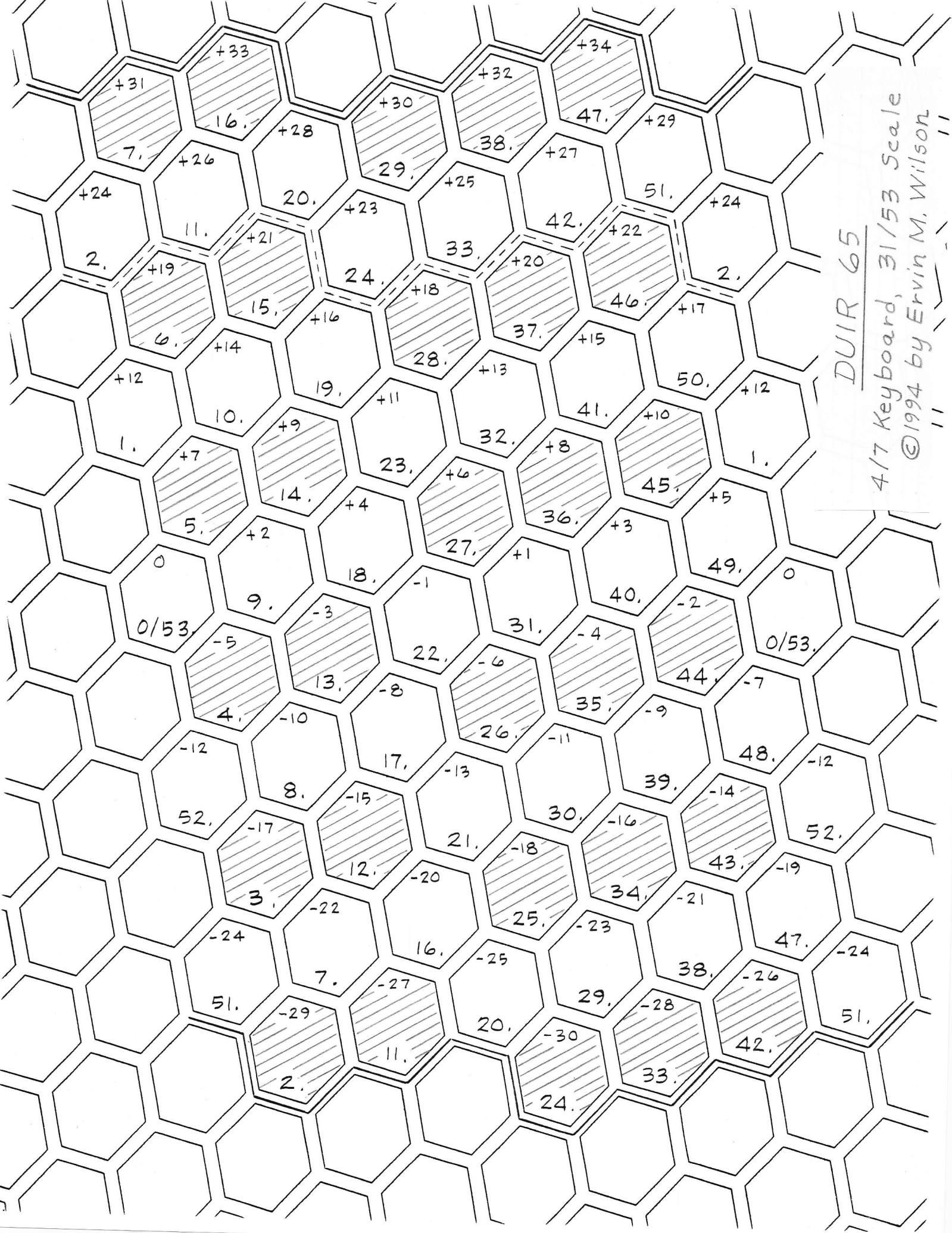


COLL 53

4/7 Keyboard, 24/41 Scale

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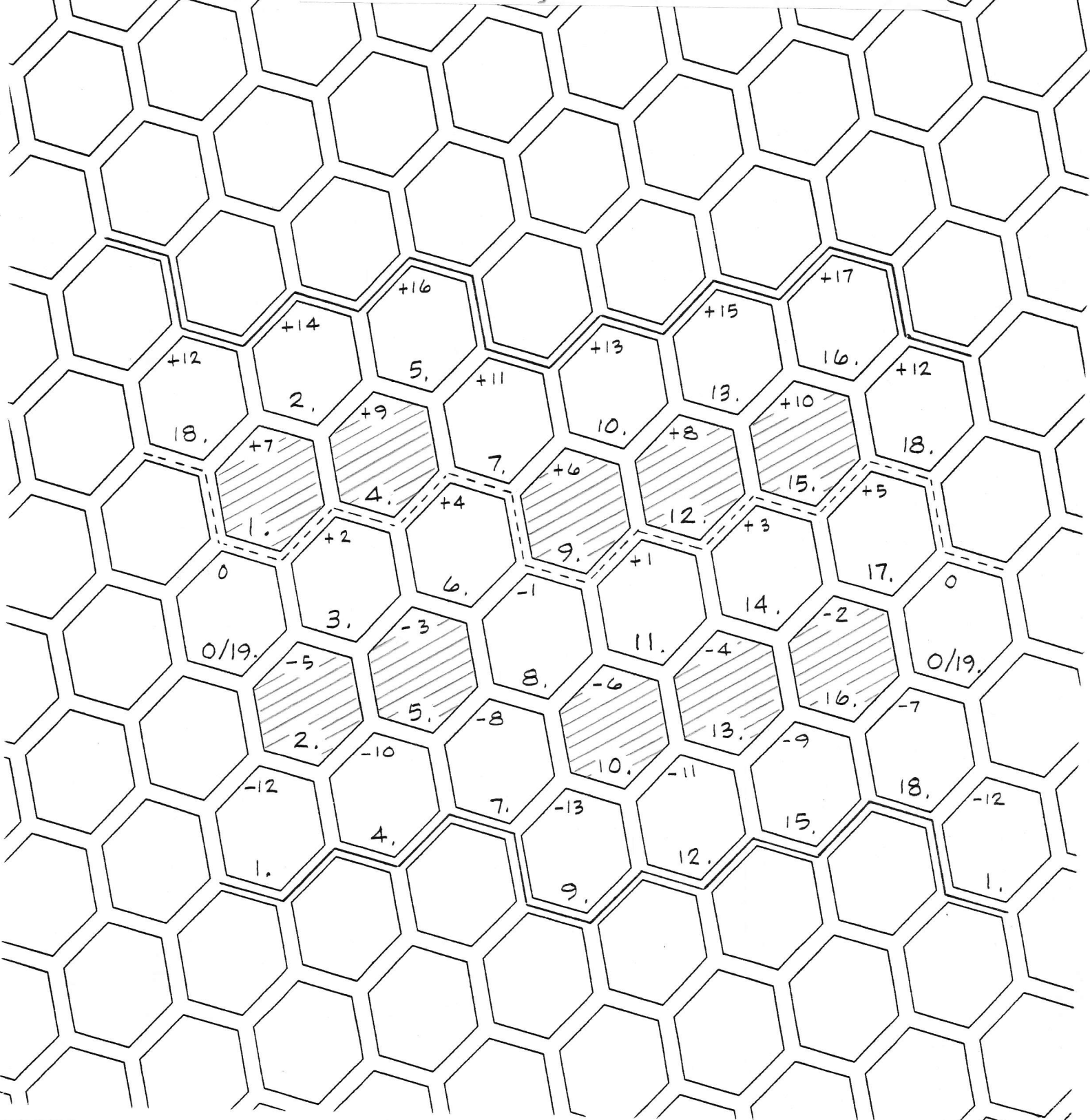
DUIR 65

4/7 Keyboard, 31/53 Scale
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EADHA 31

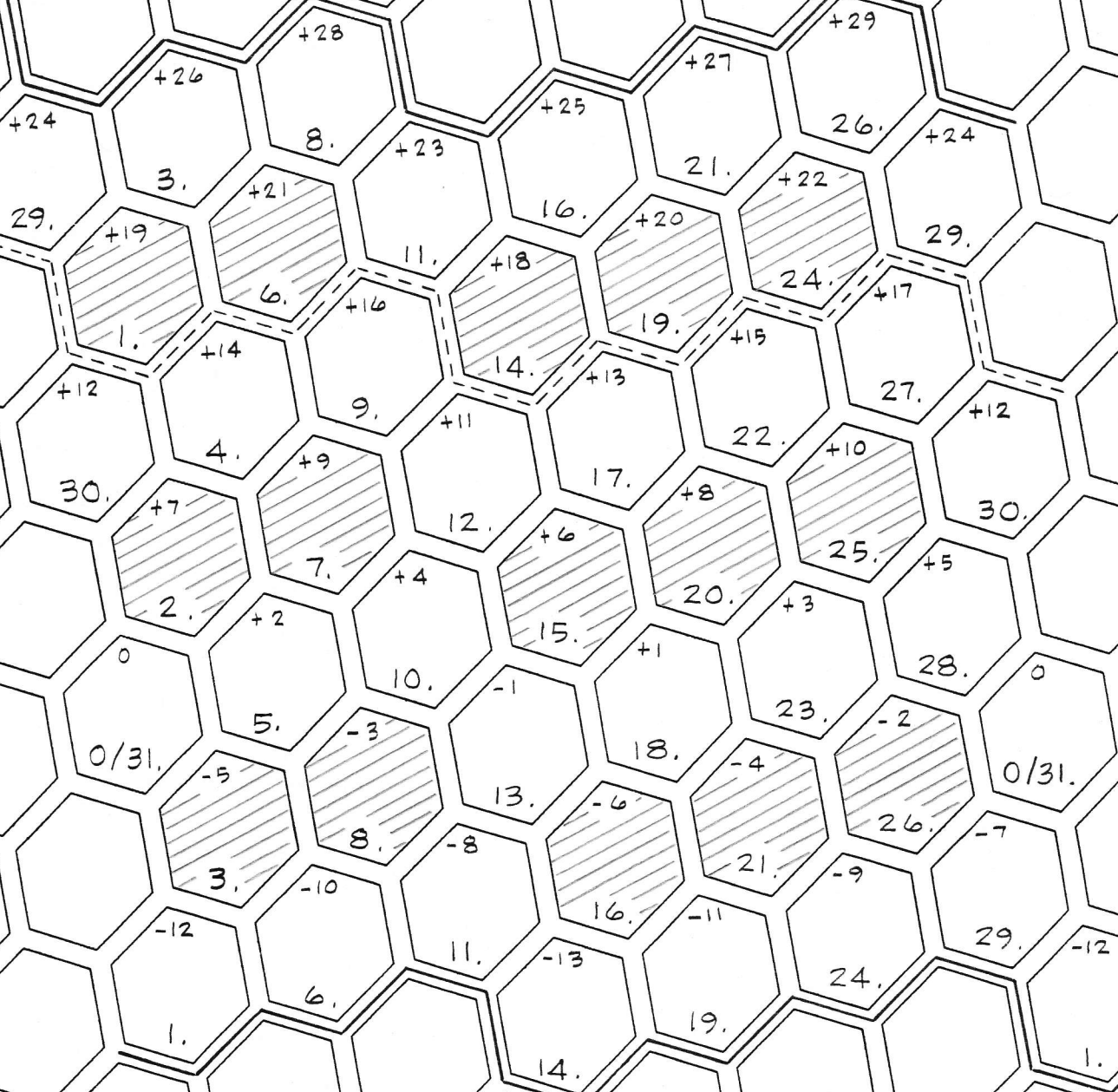
4/7 Keyboard, 11/19 Scale

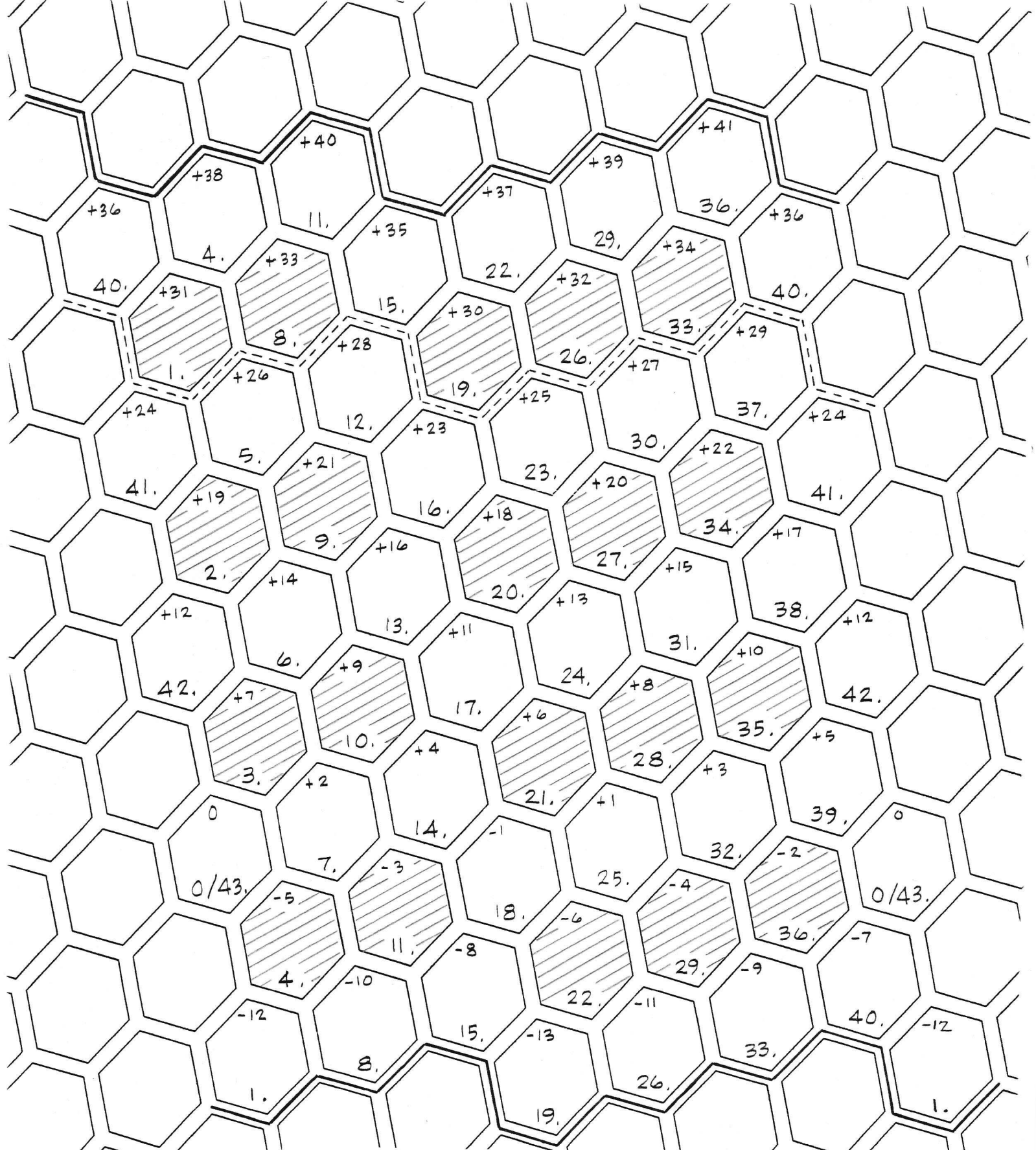
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FERN 43

4/7 Keyboard, 18/31 Scale
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GORT 55

4/7 Keyboard, 25/43 Scale

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CALLUM-17 fig. 1, Keyboard mapping
5/17 scale on 1/4 keyboard, Factorcap-5
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+7
135/128
1.

+8
81/64
6.

+9
405/256
* 11.

+7
135/128
1.

1.

+4
9/8
3.

+5
45/32
8.

+6
27/16
13.

+3
15/8
15.

0
1/1
0/17.

+1
5/4
5.

+2
3/2
10.

-1
5/3
12.

0
2/1
17/0.

-3
10/9
2.

-2
4/3
7.

-5
40/27
9.

-4
16/9
14.

-7
160/81
16.

-6
32/27
4.

-8
128/81
* 11.

-7
160/81
16.

CALLUM-17 fig. 2, Keyboard mapping
5/17 scale on 1/4 keyboard, Factor Cap-13
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$$\begin{array}{r} +7 \\ 1,053 \\ \hline 1,024 \\ 1. \end{array}$$

$$\begin{array}{r} +8 \\ 81/64 \\ 6. \end{array}$$

$$\begin{array}{r} +6 \\ 27/16 \\ 13. \end{array}$$

$$\begin{array}{r} +7 \\ 1,053 \\ \hline 1,024 \\ 1. \end{array}$$

$$\begin{array}{r} +4 \\ 9/8 \\ 3. \end{array}$$

$$\begin{array}{r} +5 \\ 351/256 \\ 8 \end{array}$$

$$\begin{array}{r} +2 \\ 3/2 \\ 10. \end{array}$$

$$\begin{array}{r} +3 \\ 117/64 \\ 15. \end{array}$$

$$\begin{array}{r} 0 \\ 1/1 \\ 0/17 \end{array}$$

$$\begin{array}{r} +1 \\ 39/32 \\ 5. \end{array}$$

$$\begin{array}{r} -2 \\ 4/3 \\ 7. \end{array}$$

$$\begin{array}{r} -1 \\ 13/8 \\ 12. \end{array}$$

$$\begin{array}{r} 0 \\ 2/1 \\ 0/17. \end{array}$$

$$\begin{array}{r} -3 \\ 13/12 \\ 2. \end{array}$$

$$\begin{array}{r} -6 \\ 32/27 \\ 4. \end{array}$$

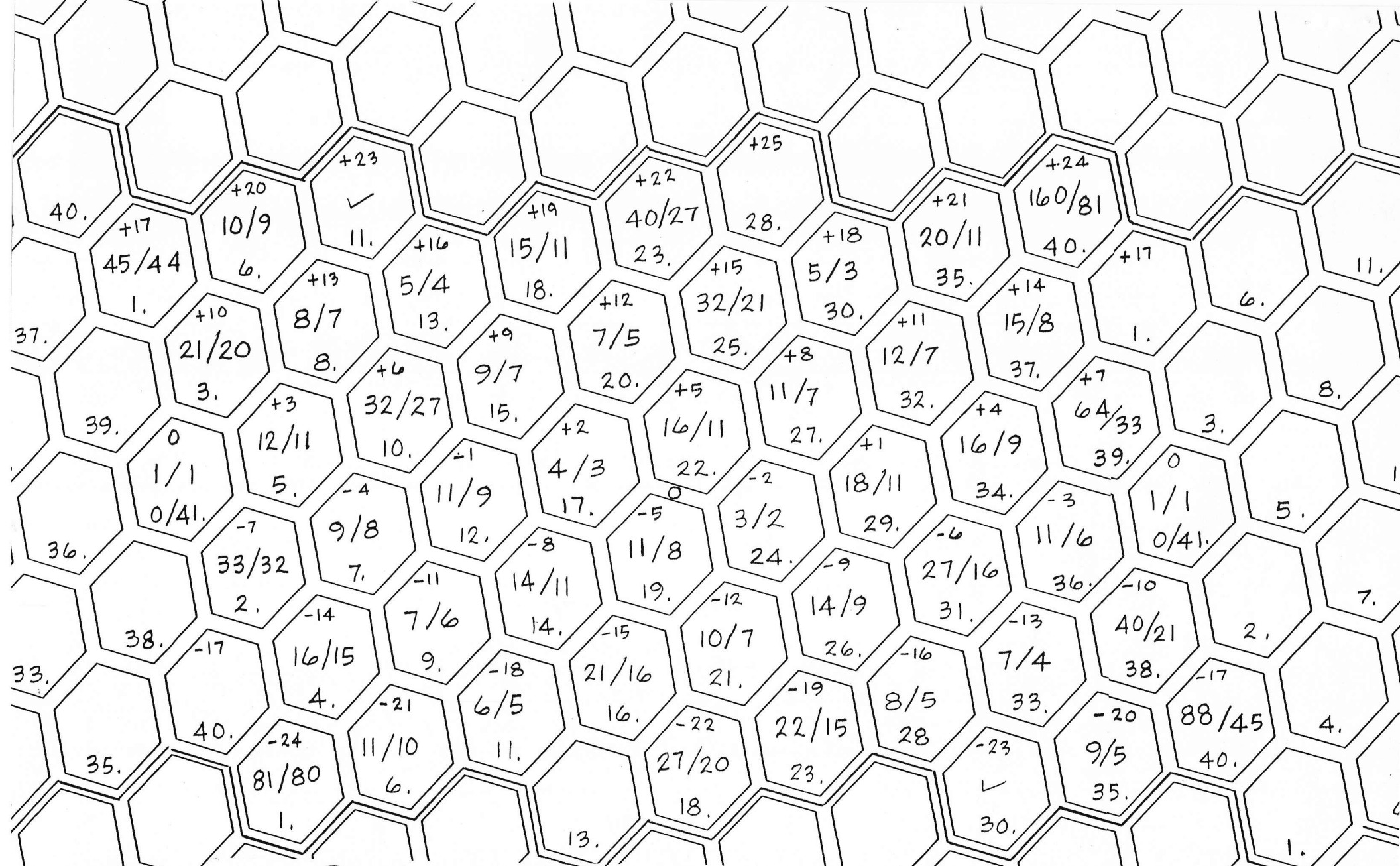
$$\begin{array}{r} -5 \\ 13/9 \\ 9. \end{array}$$

$$\begin{array}{r} -4 \\ 16/9 \\ 14. \end{array}$$

$$\begin{array}{r} -7 \\ 52/27 \\ 16. \end{array}$$

$$\begin{array}{r} -8 \\ 128/81 \\ 11. \end{array}$$

$$\begin{array}{r} -7 \\ 52/27 \\ 16. \end{array}$$

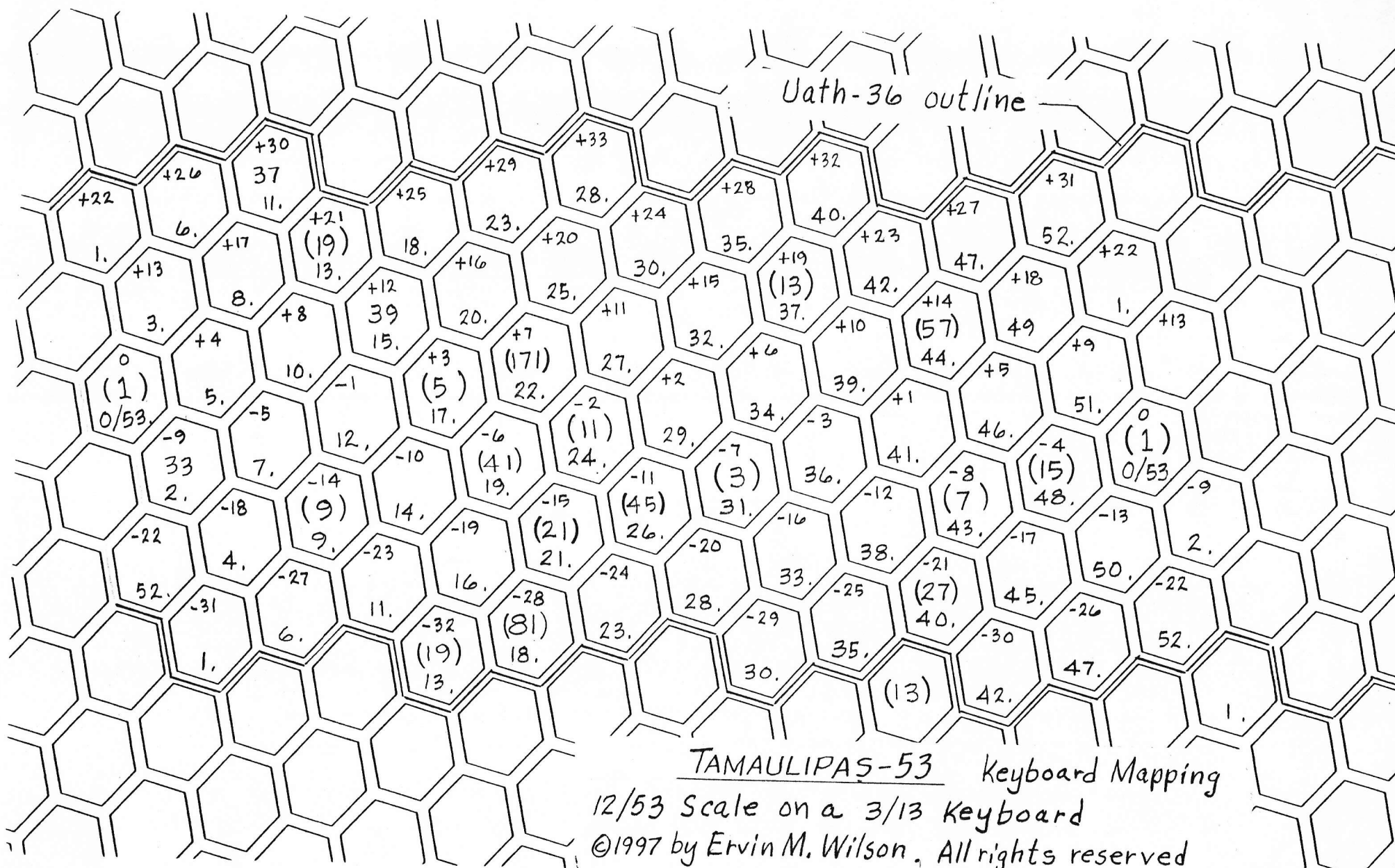


PETALUMA - 41 Keyboard mapping
 12/41 Scale on 3/10 Keyboard (Uath-36 outline)

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ref: Genesis of a Music, Partch 1949

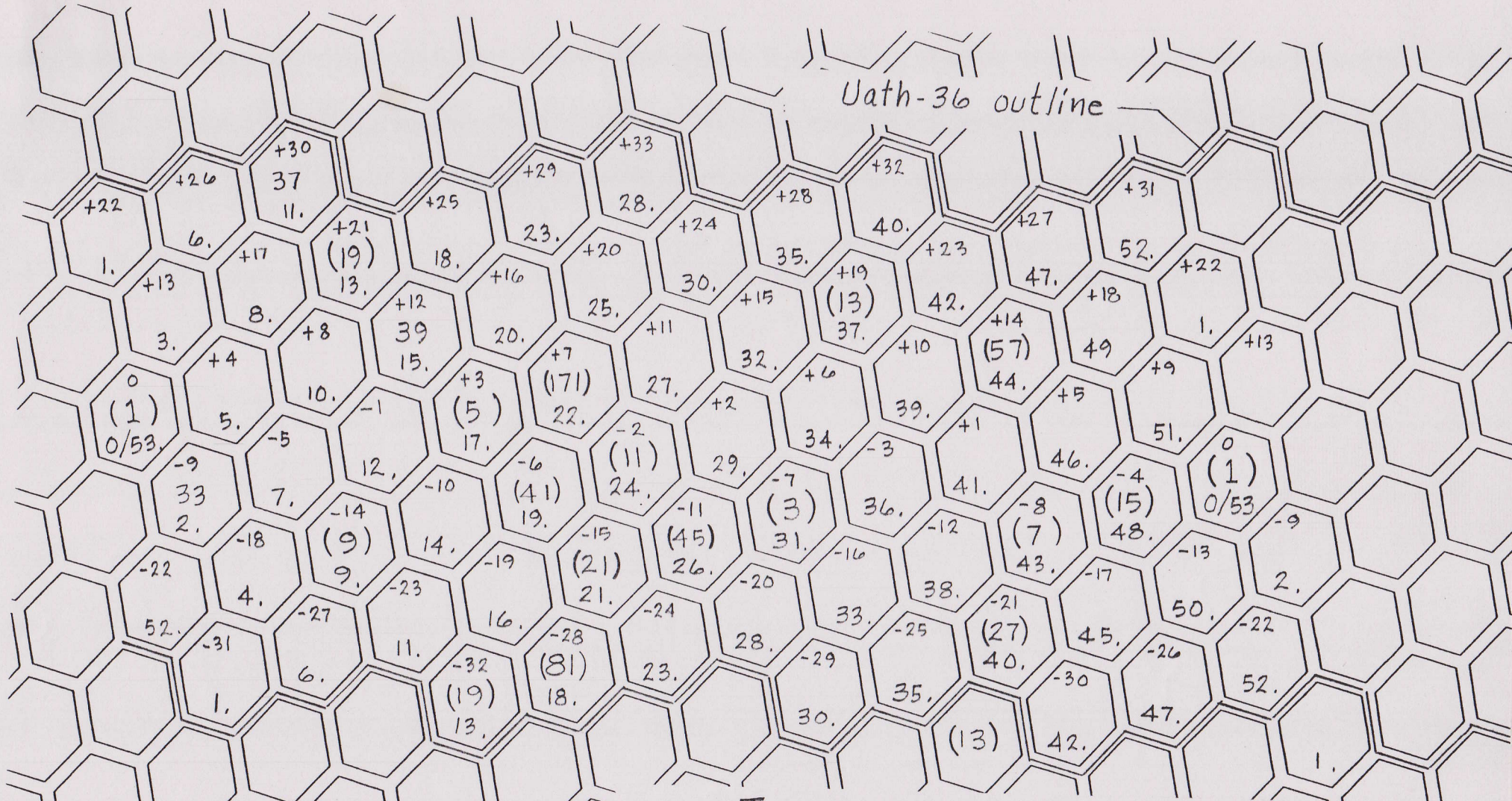
Uath-36 outline



TAMAULIPAS-53 Keyboard Mapping

12/53 Scale on a 3/13 Keyboard
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Math-36 outline



TAMAULIPAS-53 Keyboard Mapping

12/53 Scale on a 3/13 Keyboard (10/13)

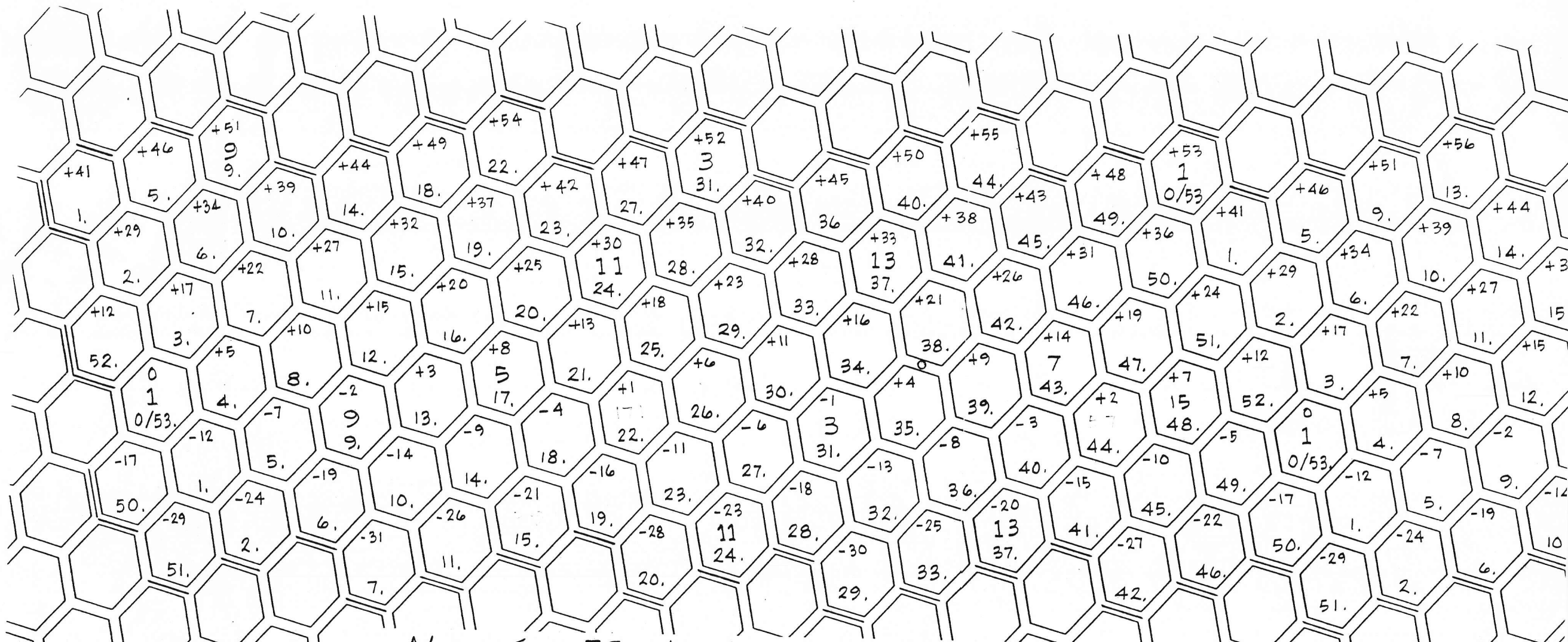
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Example: $12/53 = .22642$: indexes scale-tree branch showing nested MOS (or 2-interval pattern)

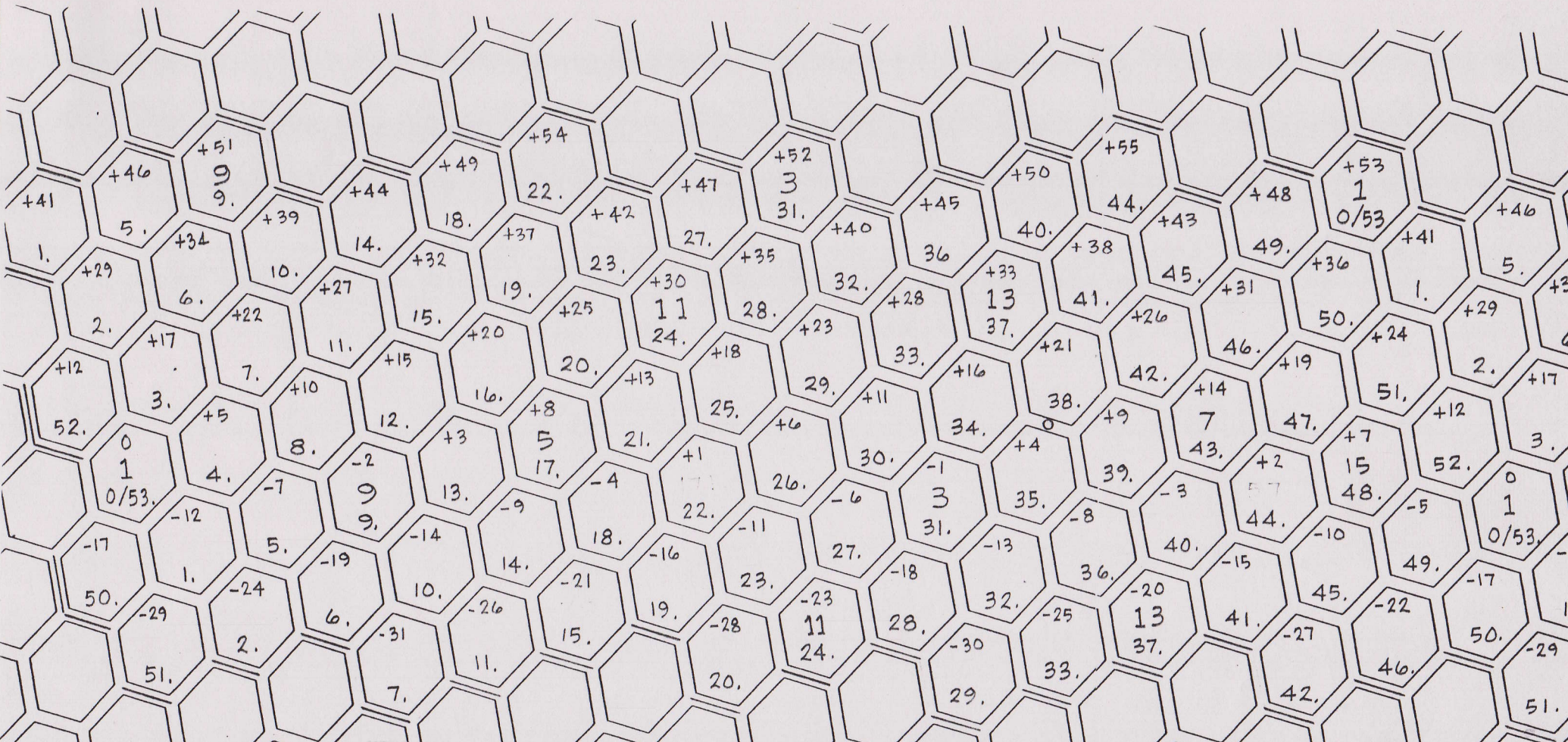
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nested MOS: $\frac{1}{1} \frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{5} \frac{2}{9} \frac{3}{13} \frac{5}{22} \frac{7}{31} \frac{12}{53} \rightarrow \text{etc}$

Keyboard scale 19 March 1998 Erv Wilson



NAYARIT - 53, Keyboard mapping
 22/53 Scale on 7/17 Keyboard, (Uath-36 Outline)
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NAYARIT - 53, Keyboard mapping
 22/53 Scale on 7/17 keyboard, (Uath-36 Outline)
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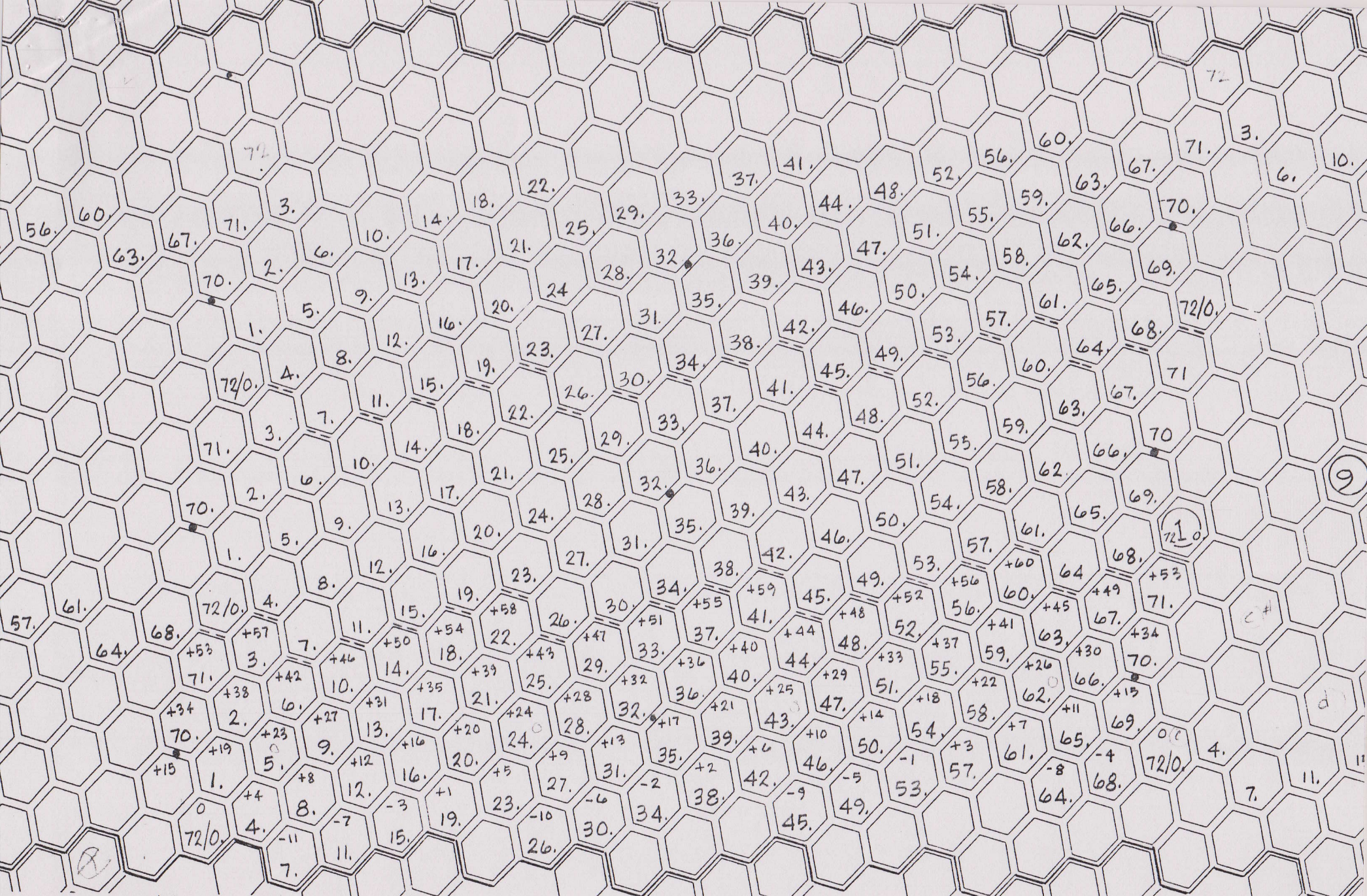
Example: $22/53 = .41509$ indexes branch of Scaletree showing nested Moments of Symmetry[†]

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nested MOS: ~~1 1 2 3 4 7~~ ~~1 2 3 5 7 12~~ $\frac{1}{1} \frac{1}{2} \frac{1}{3} \frac{2}{5} \frac{3}{7} \frac{5}{12} \frac{7}{17} \frac{12}{29} \frac{17}{41} \frac{22}{53} \rightarrow \text{etc}$

E. Wilson 19 Mar 98

Keyboard Scale



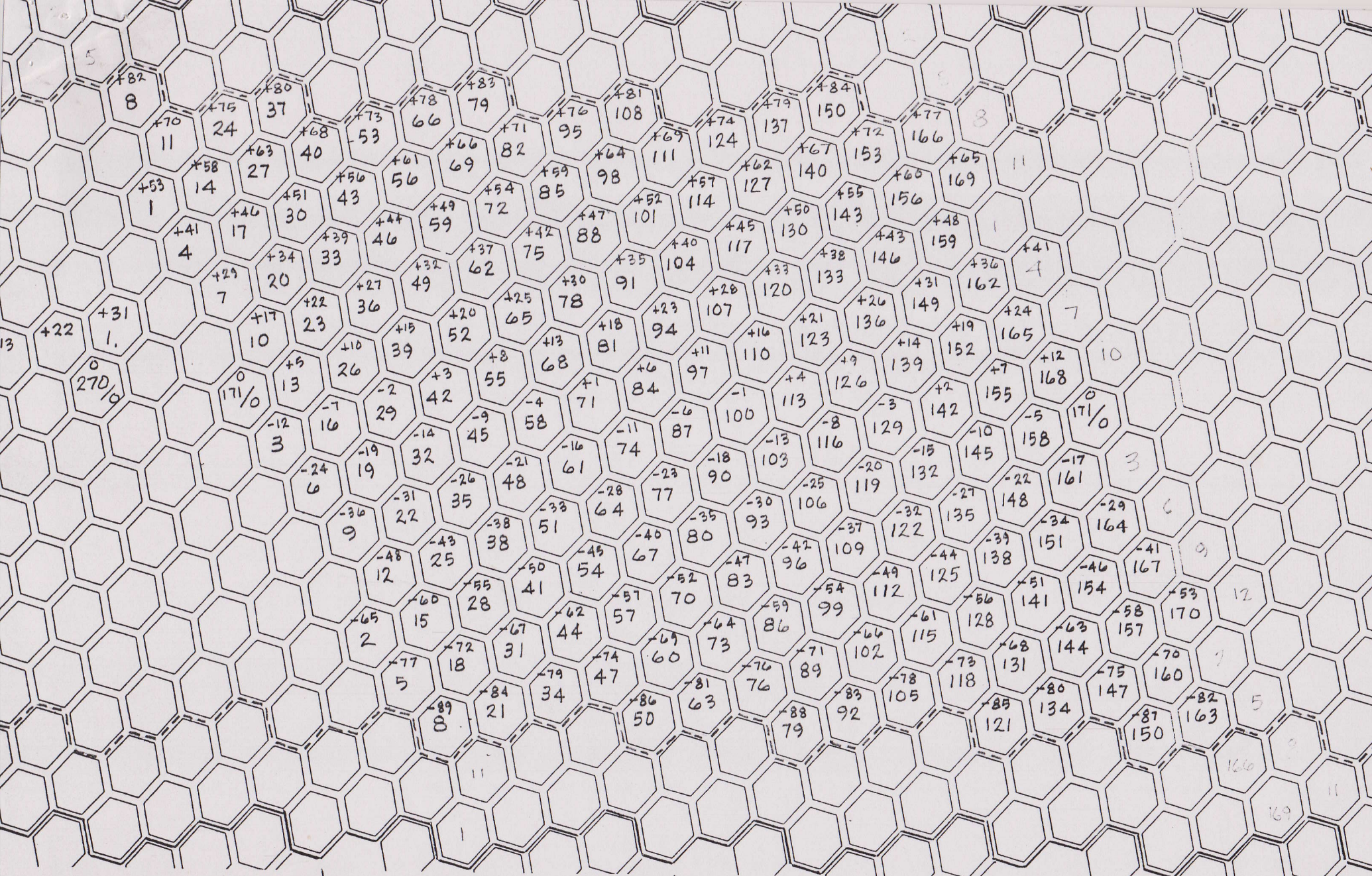
example: BEGIN
 $19/72 = .26389$ indexes scale-free branches

MOS: $\frac{1}{1} \frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{2}{7} \frac{3}{11} \frac{4}{15} \frac{5}{19} \frac{9}{34} \frac{14}{53} \frac{19}{72}$ etc
 KBD SCALE

36 19/72 SCALE, 5/19 KBD
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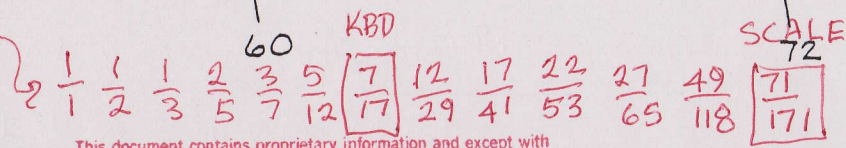
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note 53. This is the Hansonian Series, E.W. 19 Mar 98



example: $71/171 = .41520$

nested MOS:

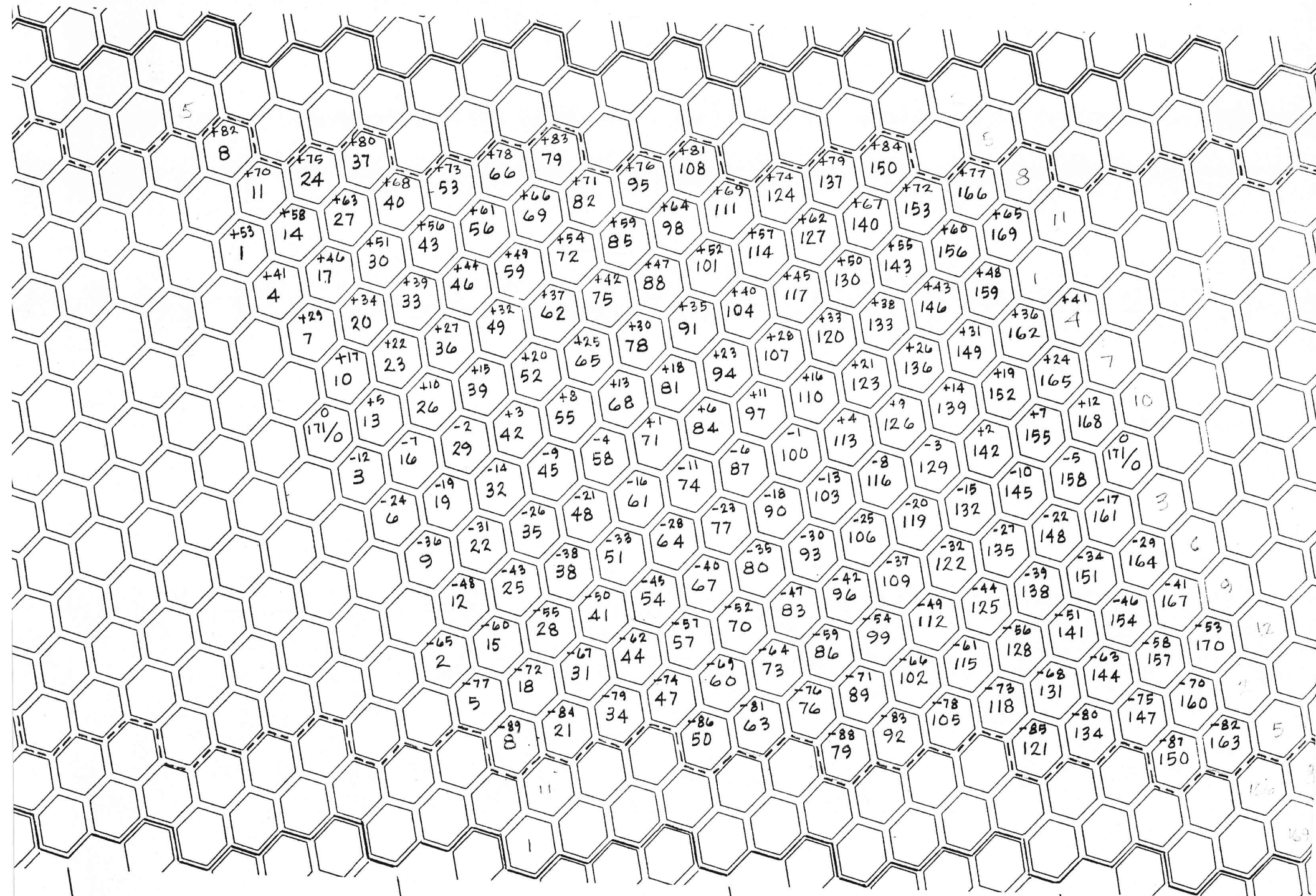


71/171 scale on 7/17 Kbd Pyth

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E. Wilson 19 Mar 1998

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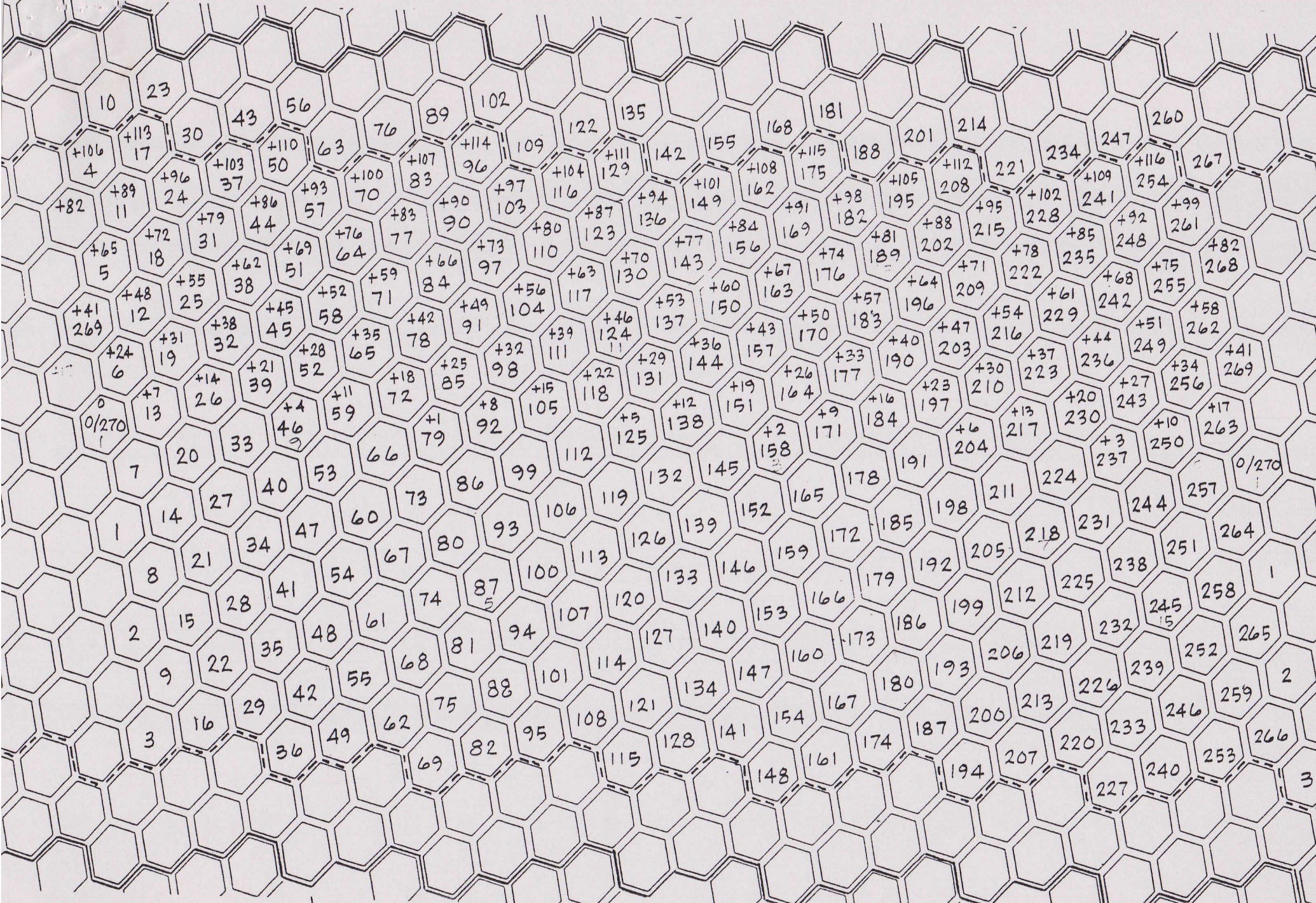


48

60

72

84



79/270 Scale, 7/24 Keyboard

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270 on Wath 96

60 ©1996 ^{KBD} by Erv Wilson

This drops off the scale-tree - use the 1/2 - zigzag routine.

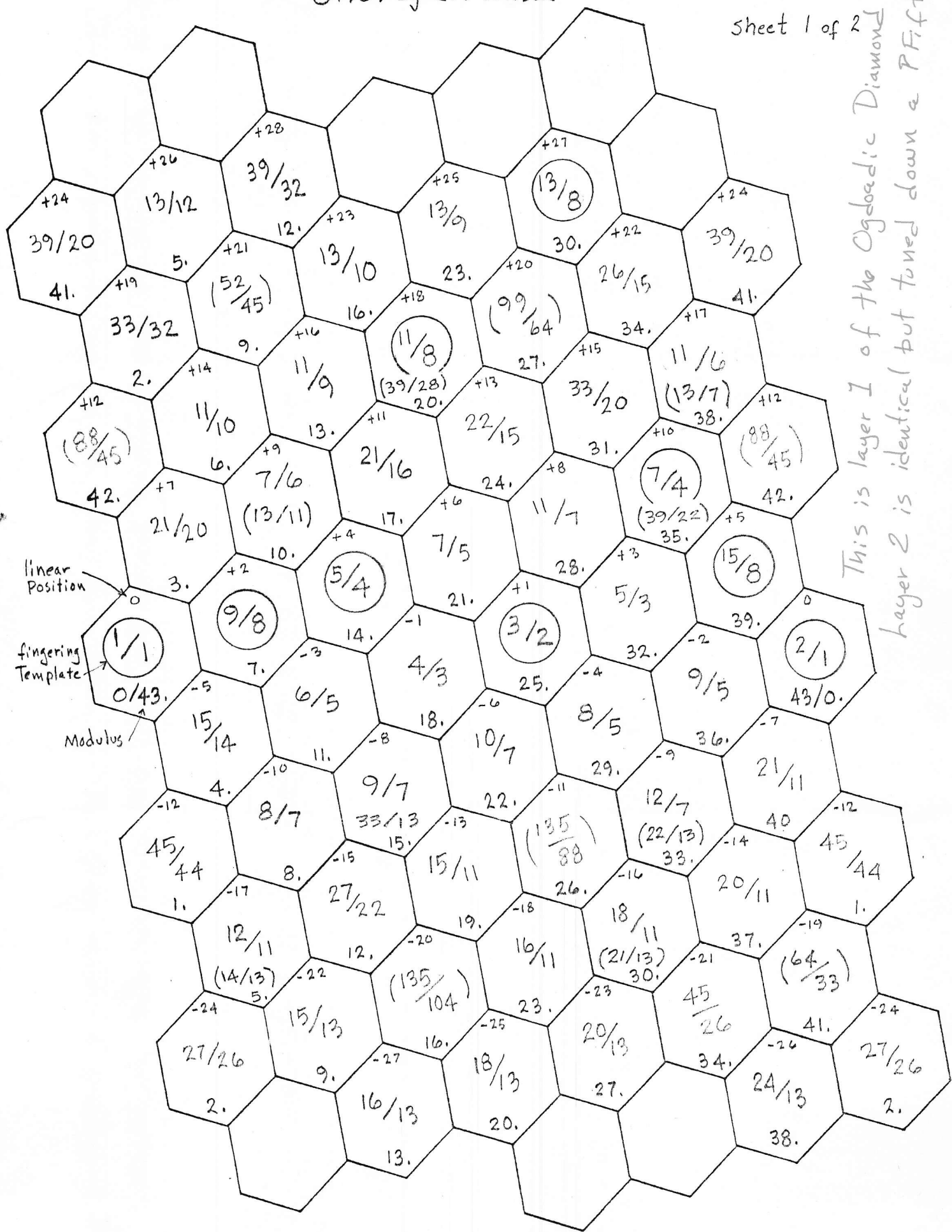
E.W. 19 mar 98

SCALE

Example: 79/270 = 29259; Nested MOS; 1/1 1/2 1/3 1/4 2/7 3/10 5/17 (7/24) 12/41 19/65 31/106 43/147 55/188 67/229 (79/270)

"Roebuck" Keyboard Program
 ©1989 by Erv Wilson

Sheet 1 of 2



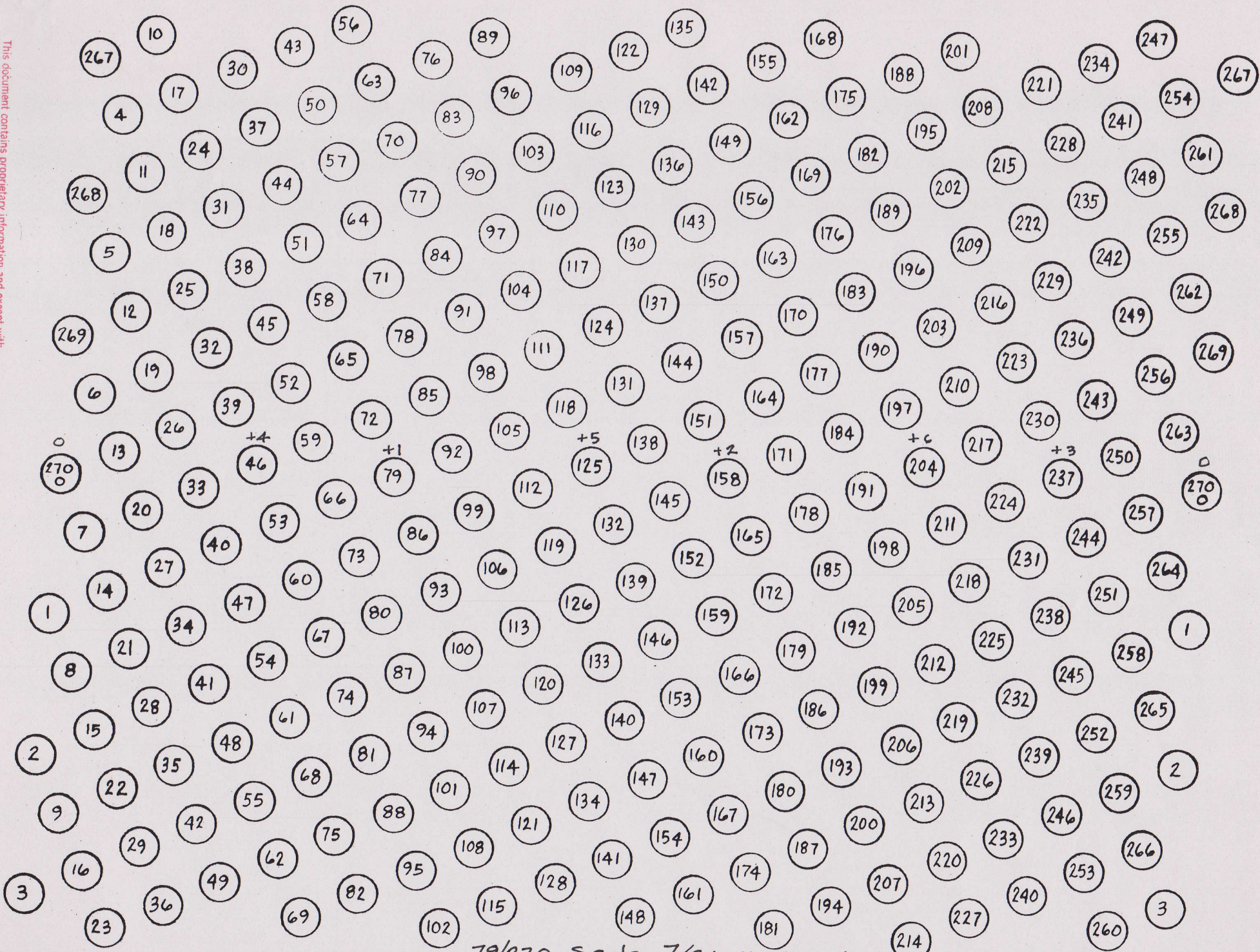
This is layer 1 of the Ogboadic Diamond
 layer 2 is identical but tuned down a PFifth

Linear Position

Fingering Template

Modulus

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79/270 scale, 7/24 Keyboard

E.W. 98