26-Tone Chain of Sevens

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Scale Degree	Chain Position	Factoradic: Subharmonic, Harmonic	*	Pitch Base 384	*	Reference: Pitches for 26 Equal
0/26.	0	$1/7^0$ (=1)	7^0 (=1) (1/1)	384	A	384
1.	−5		7^5	393.91		394.37
2.	−10		7^{10}	404.08		405.03
3.	−15		7^{15}	414.52		415.97
4.	+6	$1/7^6$		427.81		427.21
5.	+1	$1/7$	(8/7)	438.86	E	438.75
6.	−4		7^4	450.19		450.61
7.	−9		7^9	461.81		462.78
8.	−14		7^{14}	473.73		475.29
9.	+7	$1/7^7$		488.92		488.13
10.	+2	$1/7^2$	(64/49)	501.55	I	501.32
11.	−3		7^3	514.5		514.86
12.	−8		7^8 †	527.78		528.77
13.	−13		7^{13}	541.41		543.06
14.	+8	$1/7^8$		558.77		557.73
15.	+3	$1/7^3$	(512/343)	573.20	O	572.80
16.	−2		7^2	588		≠ 588.28
17.	−7		7^7 ≠	603.181		! 604.17
18.	−12		7^{12}	618.75		≠ 620.49
19.	+9	$1/7^9$		638.60		637.26
20.	+4	$1/7^4$		655.09		654.47
21.	−1		7 (7/4)	672	U	672.16
22.	−6		7^6	689.35		690.32
23.	−11		7^{11}	707.15		708.97
24.	+10	$1/7^{10}$		729.83		728.12
25.	+5	$1/7^5$		748.67		747.80
26/0.	0	$1/7^0$	7^0 (1/1)	768 (Octave)	A	768

Some notable equivalences; (or nearly so)

≠ ϕ (1.618…) = 621.32/384 † 11/8 (1.375) = 528/384

≠ π (3.14159) = 603.186/192 ≠ Golden Section (1.534782) = 589.356/384

! 22/7 (3.1428) = 603.43/192 Ref. Chakra Music*, Arnold Keyserling, 1972

7/4 (1.750) = 672/384 → antilog$_2$ of .61803398875…

MOS of 8/7, (1.142857142857)

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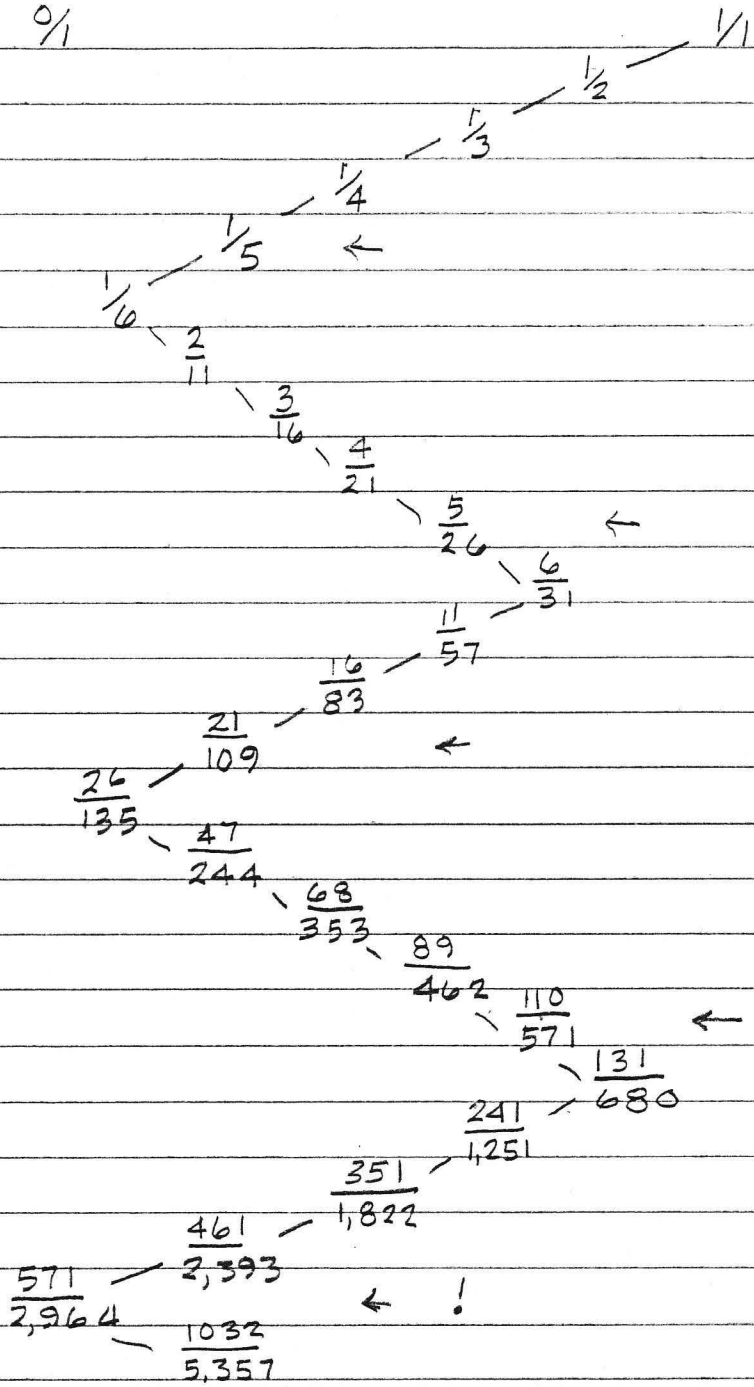
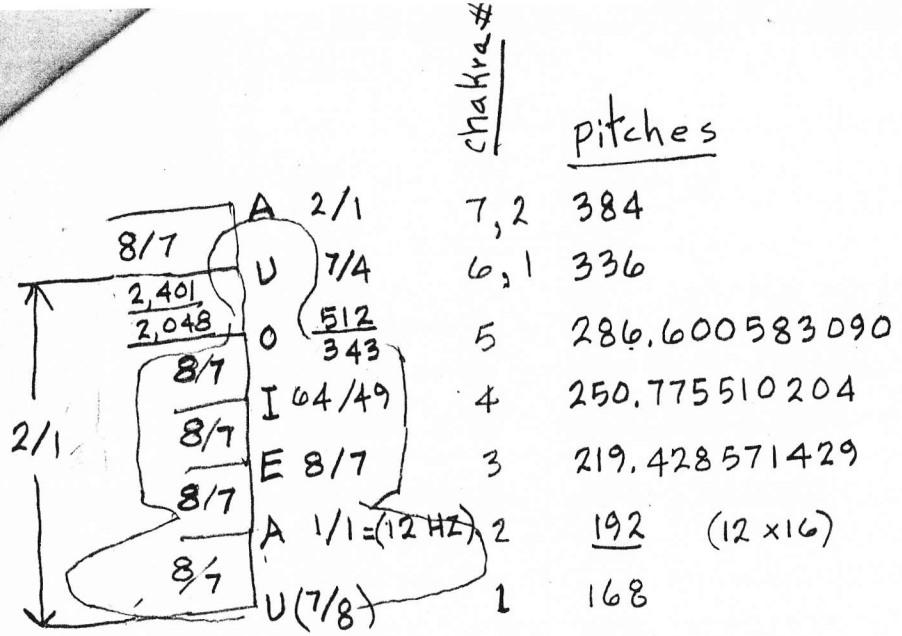
log 2
.192645077942 0/1

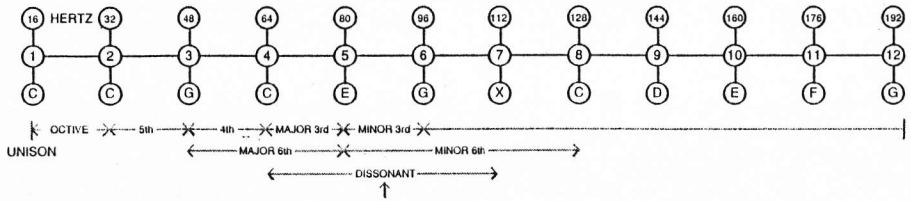
←	5	.190
→	5	.238
←	4	.192
→	5	.201
←	4	.967
	1	.033
	29	.804





analysis by Erv Wilson Dec 29, 1996
(any error in interpretation is mine.)

HARMONIC SERIES WITH C AS THE FUNDAMENTAL (16 HERTZ)

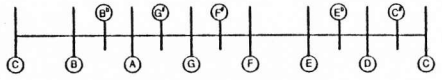


The 7th harmonic and the 7:4 interval has no place or name in the diatonic scale

I had long suspected that the seventh harmonic, corresponding analogously to the seven chakras, might hold the key to Esoteric Music, and perhaps even to the chakras themselves. I knew that when the natural seventh was taken as the basic interval, to the exclusion of the others which normally make up our musical scale, that the resulting vibrations would not be in the standard octave relationship. But I did not know what frequency to use to base the construction of such a scale, nor was I sure what the correlation would be with these tones to the chakra energies.

In the late sixties brain wave research of Zen monks and yogis in Samadhi for the first time showed that the alpha brain wave was always produced when they entered this peak experience. This provided me with the fundamental tone on which to calculate new intervals based on the natural seventh. I made the mathematical calculations of such a new musical scale and discovered that if you take the original tone of Alpha as 12 hertz in accord with brain wave experiments, and you use the 7 to 4 ratio of the natural seventh harmonic, that a new five tone - pentatonic - scale results. I named the five notes after the vowels: A, E, I, O, U. The primatonic scale has completely new tones and intervals which have nothing to do with our musical temperament and the diatonic scale.

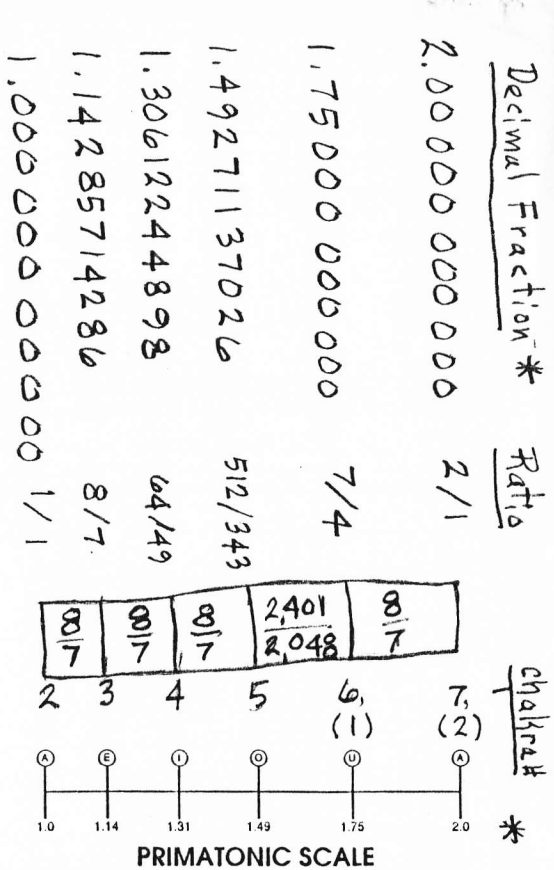
The new tone frequencies and intervals created by the natural seventh based on alpha waves we now call Prima Sounds. As soon as we created an electronic instrument to play these new tones we knew that this was the Esoteric scale I had been searching for. It is different from the twelve tone and diatonic scale and also completely different from the popular pentatonic scale, the black keys of the



DIATONIC SCALE
(7 OCTAVES X 12 NOTES = 84 AUDIBLE NOTES)

piano, which is comprised of the cycle of fifths after the notes of the seven tone scale have been used. This new pentatonic scale opens hearing to the inner Universe and in most ancient civilizations this Esoteric Music was held sacred and kept secret.

The seventh harmonic and brain wave research revealed the secret of the second music, its attunement to the chakras. Prima Sounds is also called "Chakra Music" because when we first played the tones in 1971 we found that the scale was attuned to all seven "chakras". The overtones of the fundamental tone, 12 hertz, stimulated our seventh chakra and our second chakra. The fifth note in the scale—U— was in resonance with the first chakra and the sixth chakra. The second note— E— was tuned to the third chakra, the third note —I— to the fourth, the fourth note —O— to the fifth chakra. By experimentation with the tones we found that a person can attain fullness of consciousness and inner silence, the fundamental spiritual vibration OM, by listening to these new sounds as an adjunct to traditional meditation.



PRIMATONIC SCALE
(9 OCTAVES X 5 NOTES = 45 AUDIBLE NOTES)

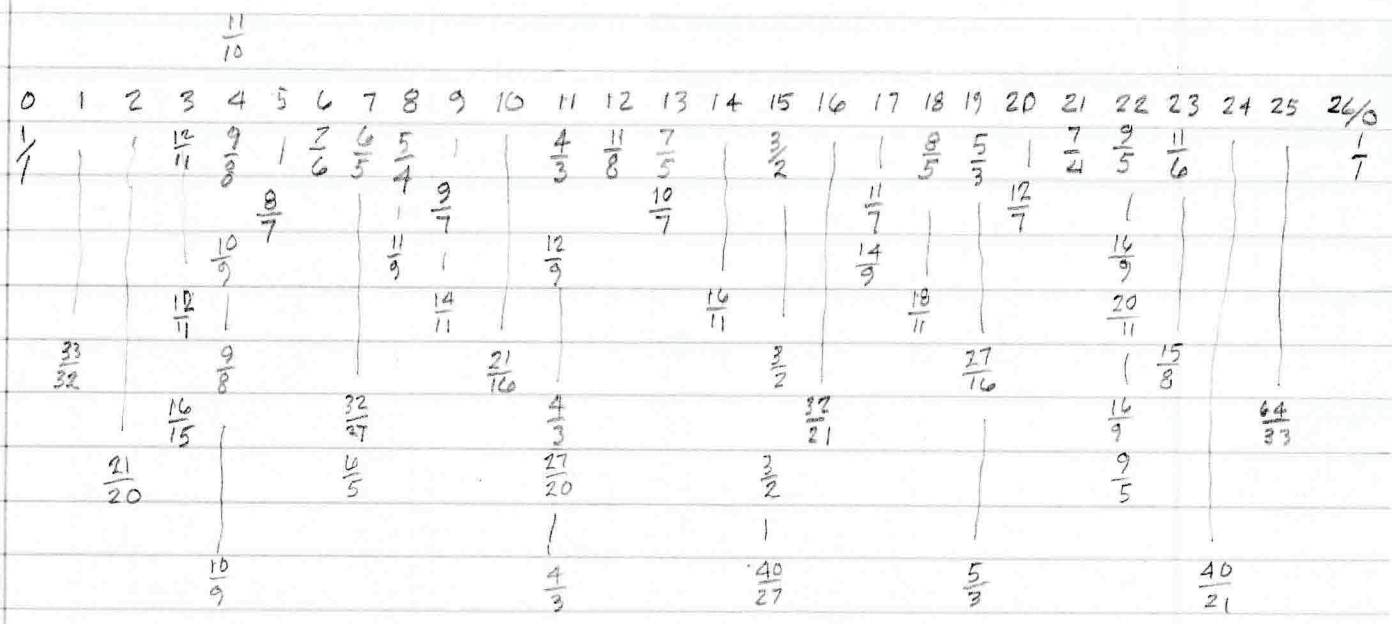
The creation of music with these new tones, however, was an entirely different matter. The training in traditional music was counter-productive; a totally new start was required. For various reasons, including our experience of numerous technical problems with the electronic instruments themselves, we did not pursue this as a musical form. For the most part we limited our use to single tones and simple chord combinations as part of yoga and meditation classes.

However, Ralph Losey, one of my students in Vienna in 1971 when the discovery was made, took up the challenge on his own upon his return to the United States. Over the next twenty years he explored and developed Chakra Music into a new art form and type of spiritual path which he renamed Prima Sounds. Upon hearing his music performed for the first time in the Spring of 1992 I knew that the Esoteric Music which I had discovered twenty years before was now ready to come out into the open.

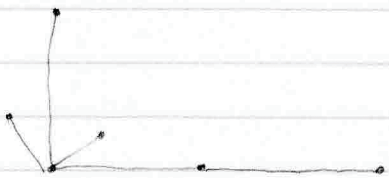
This information only appears today from its hidden historical recesses because the ways of

26-Tone Scale like Diamond

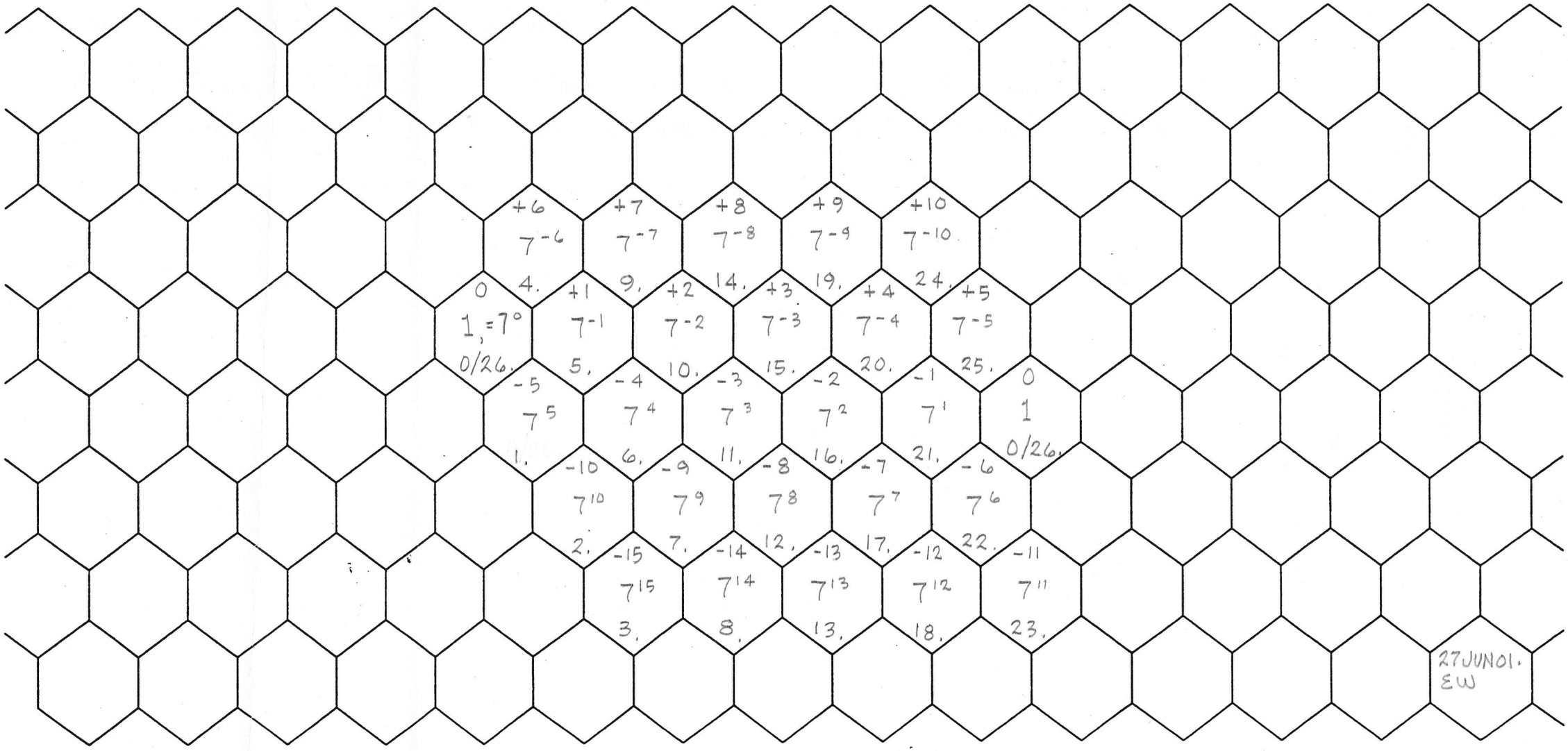
3 = 15, 5 = 8, 7 = 21 (20.99) 9 = 4 11 = 11
(15.20) (8.37) (4.42) (11.94)

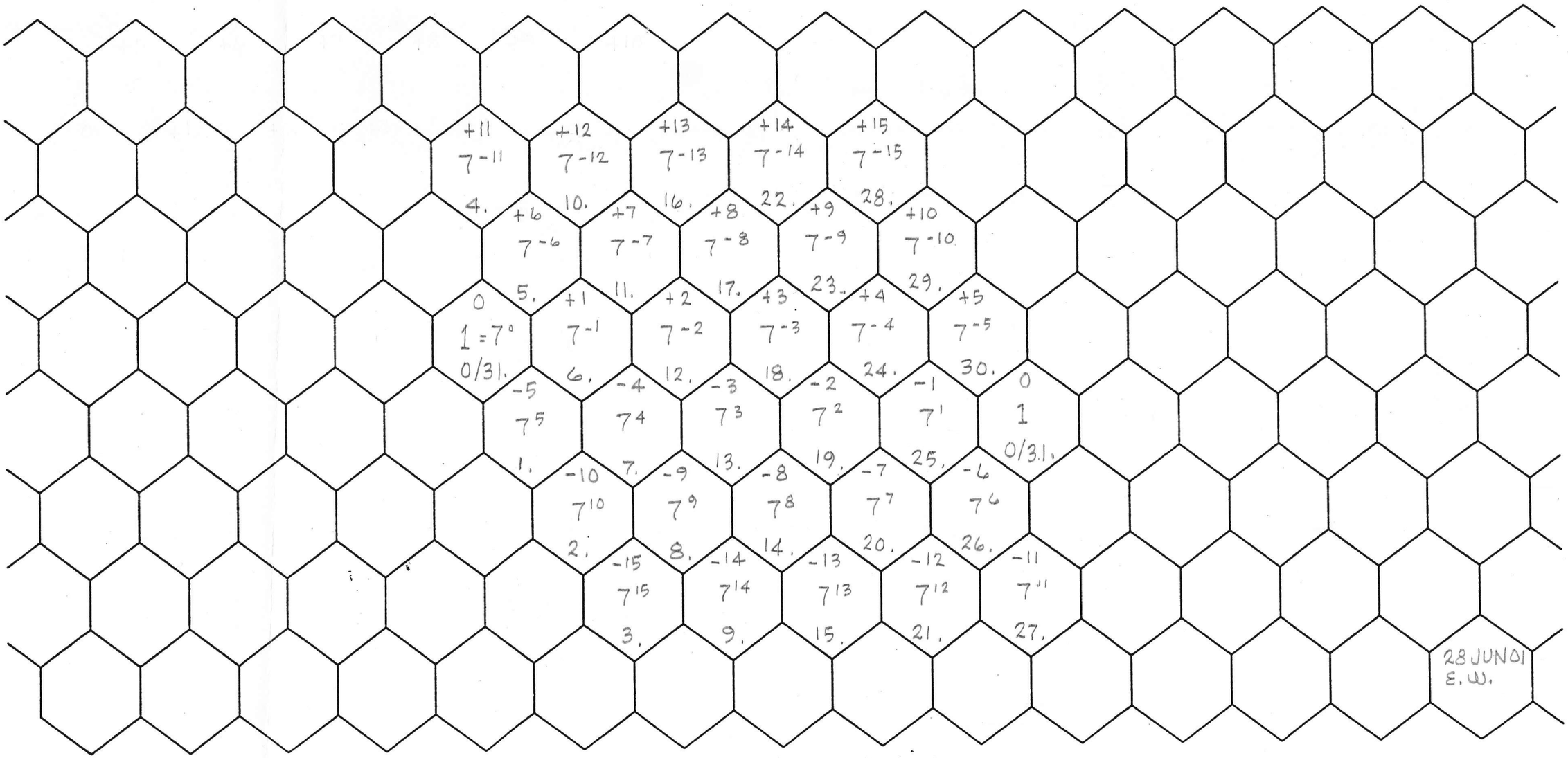


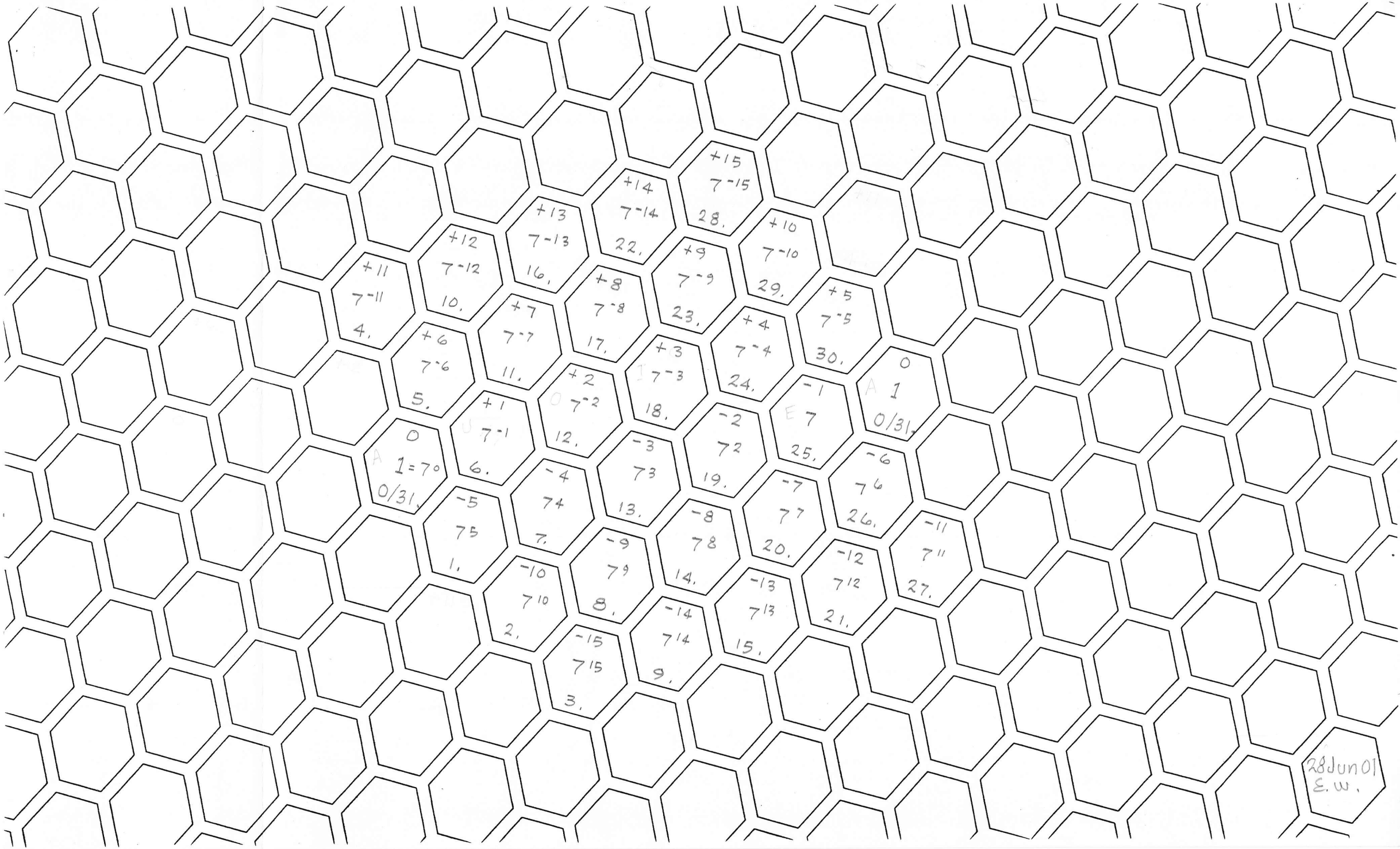
1/1 33/32 21/20

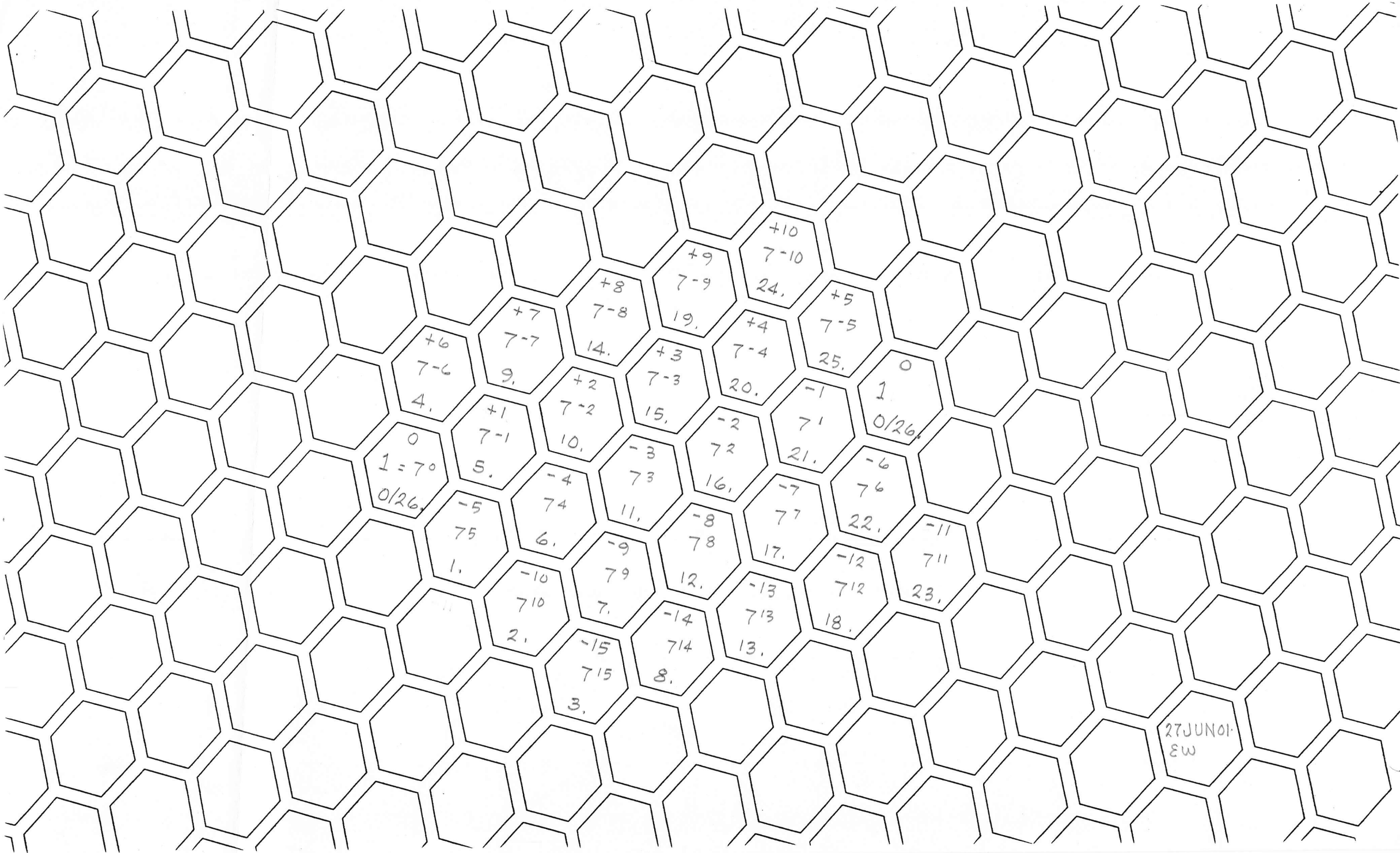


chain of .1160357457


+6
7-6
4.
+7
7-7
9.
+8
7-8
14.
+9
7-9
19.
+10
7-10
24.
0
1, =7°
0/26.
+1
7-1
5.
+2
7-2
10.
+3
7-3
15.
+4
7-4
20.
+5
7-5
25.
-5
7 5
1.
-4
7 4
6.
-3
7 3
11.
-2
7 2
16.
-1
7 1
21.
0
1
0/26.
-10
7 10
2.
-9
7 9
7.
-8
7 8
12.
-7
7 7
17.
-6
7 6
22.
-15
7 15
3.
-14
7 14
8.
-13
7 13
13.
-12
7 12
18.
-11
7 11
23.
27JUN01.
EW


+11
7-11
4.
+12
7-12
10.
+13
7-13
16.
+14
7-14
22.
+15
7-15
28.
+6
7-6
5.
+7
7-7
11.
+8
7-8
17.
+9
7-9
23.
+10
7-10
29.
0
1 = 7°
0/31.
+1
7-1
6.
+2
7-2
12.
+3
7-3
18.
+4
7-4
24.
+5
7-5
30.
-5
7 5
1.
-4
7 4
7.
-3
7 3
13.
-2
7 2
19.
-1
7 1
25.
0
1
0/31.
-10
7 10
2.
-9
7 9
8.
-8
7 8
14.
-7
7 7
20.
-6
7 6
26.
-15
7 15
3.
-14
7 14
9.
-13
7 13
15.
-12
7 12
21.
-11
7 11
27.
28 JUN 01
E. W.


+11
7-11
4.
+12
7-12
10.
+13
7-13
16.
+14
7-14
22.
+15
7-15
28.
+10
7-10
29.
+5
7-5
30.
0
A 1
0/31.
+6
7-6
5.
+7
7-7
11.
+8
7-8
17.
+9
7-9
23.
+4
7-4
24.
-1
E 7
25.
-6
7 6
26.
-11
7 11
27.
0
A 1=7°
0/31.
+1
U 7-1
6.
+2
O 7-2
12.
+3
I 7-3
18.
-2
7 2
19.
-7
7 7
20.
-12
7 12
21.
-5
7 5
1.
-4
7 4
7.
-3
7 3
13.
-8
7 8
14.
-13
7 13
15.
-10
7 10
2.
-9
7 9
8.
-14
7 14
9.
-15
7 15
3.
28Jun01
E.W.


0
1 = 7^0
0/26.
+1
7^-1
5.
+2
7^-2
10.
+3
7^-3
15.
+4
7^-4
20.
+5
7^-5
25.
0
1
0/26.
+6
7^-6
4.
+7
7^-7
9.
+8
7^-8
14.
+9
7^-9
19.
+10
7^-10
24.
-1
7^1
21.
-2
7^2
16.
-3
7^3
11.
-4
7^4
6.
-5
7^5
1.
-6
7^6
22.
-7
7^7
17.
-8
7^8
12.
-9
7^9
7.
-10
7^10
2.
-11
7^11
23.
-12
7^12
18.
-13
7^13
13.
-14
7^14
8.
-15
7^15
3.
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