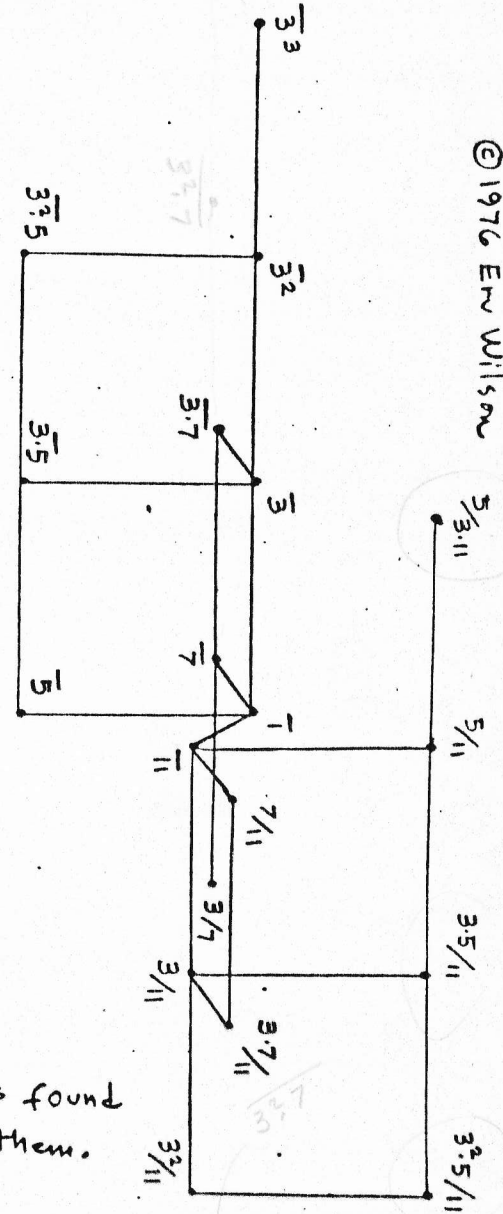
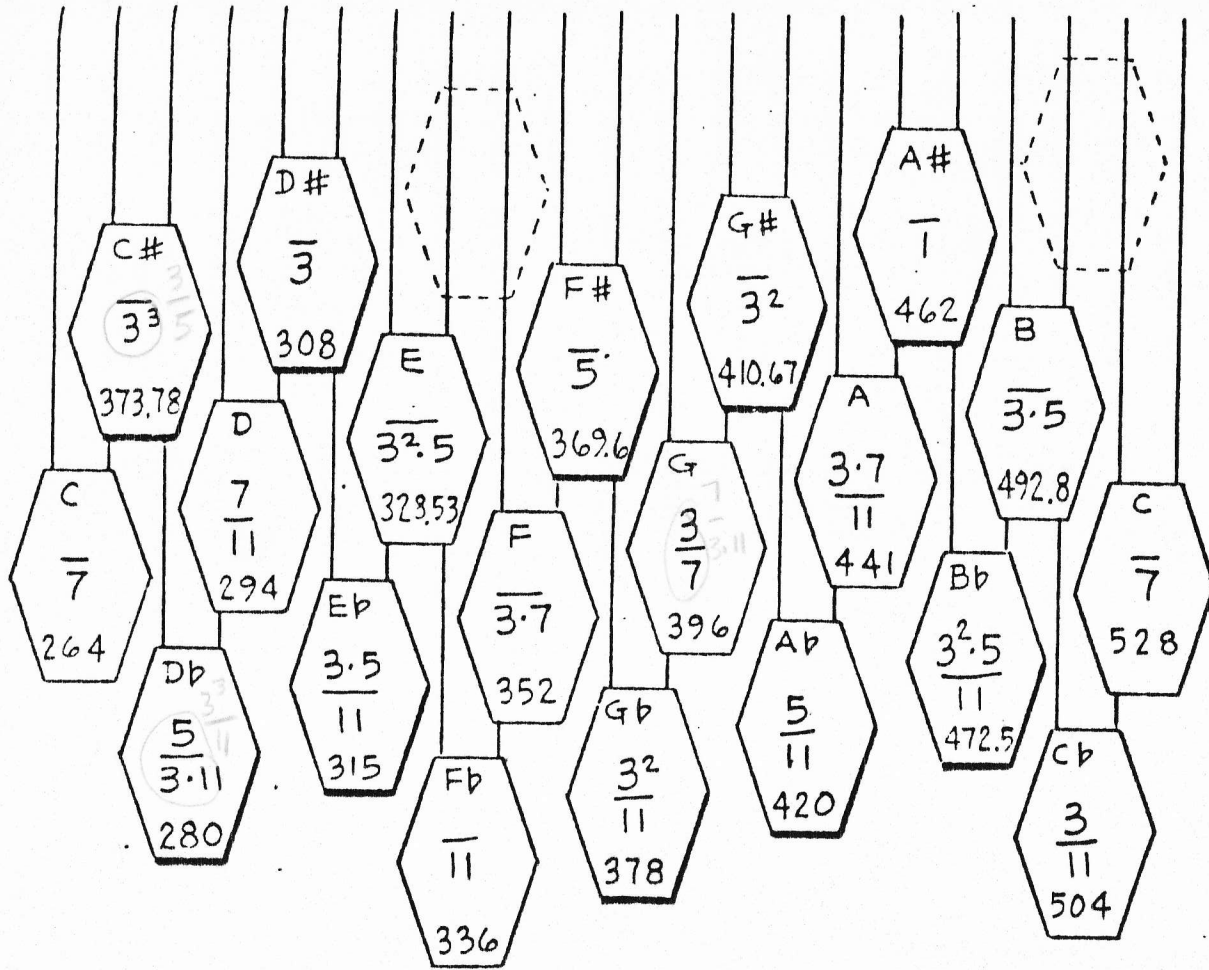
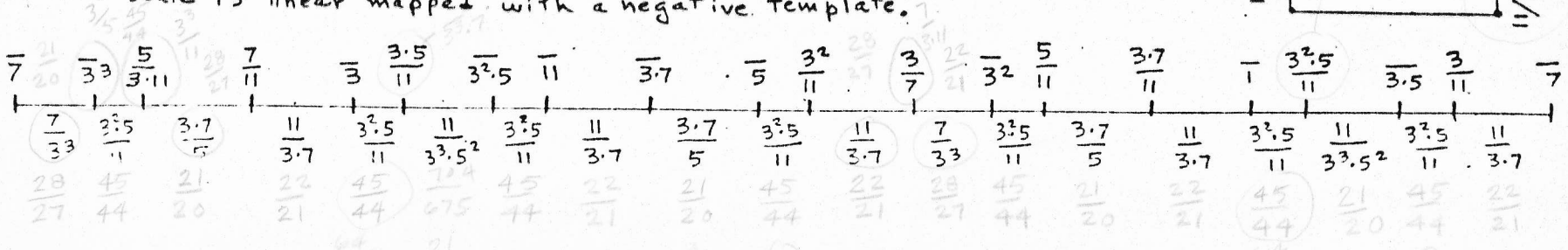


19-Tone Scale for the Clavichord-19

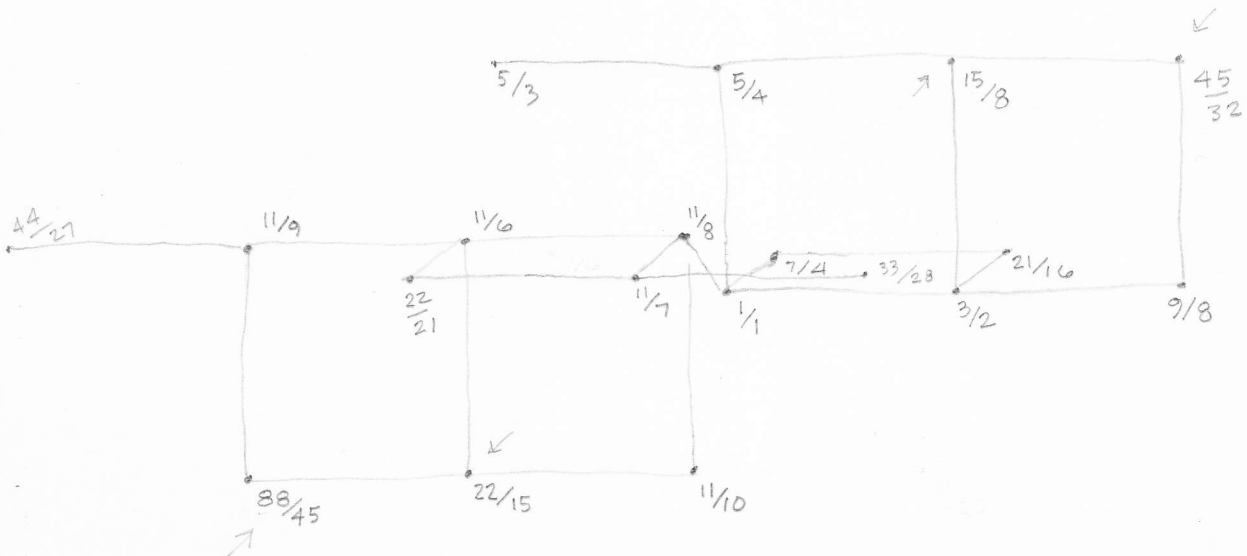
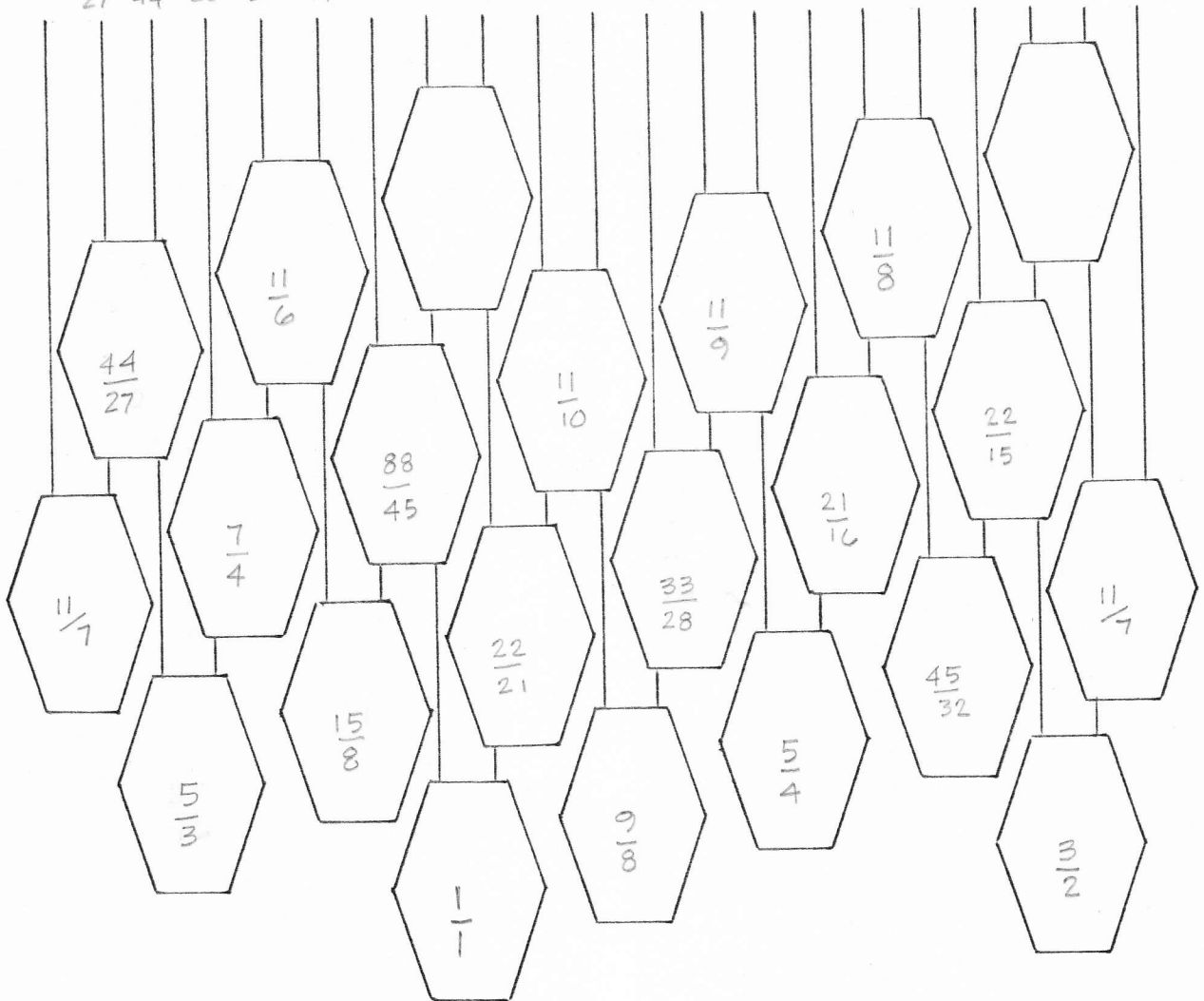
© 1976 EW Wilson



In this scale the diesis is $\frac{3^2 \cdot 5}{11} \left(\frac{45}{44} \right)$. It occurs 7 times.
 A harmonic hexad is found from Fb $\frac{1}{11}$. A subharmonic hexad is found from A# $\frac{1}{1}$. $\frac{1}{11}$ and $\frac{1}{1}$ are the points of intersection between them.
 This scale is linear mapped with a negative template.

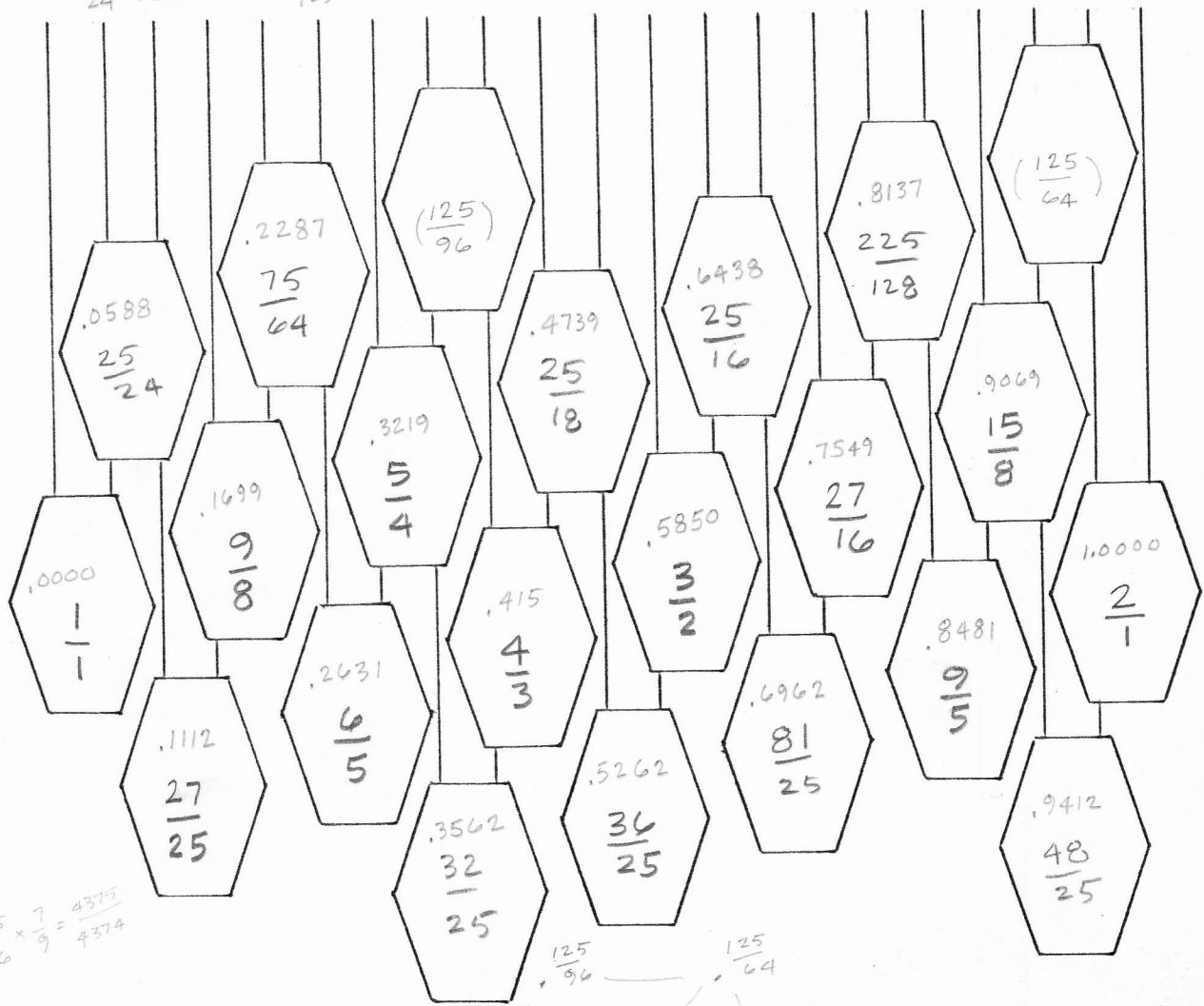


$\frac{28}{27}$ $\frac{45}{44}$ $\frac{21}{20}$ $\frac{22}{21}$ $\frac{45}{44}$ $\frac{704}{675}$ $\frac{45}{44}$ $\frac{22}{21}$ $\frac{21}{20}$ $\frac{45}{45}$ $\frac{22}{21}$ $\frac{28}{27}$ $\frac{45}{44}$ $\frac{21}{20}$ $\frac{22}{21}$ $\frac{45}{44}$ $\frac{704}{675}$ $\frac{45}{44}$ $\frac{22}{21}$



$$\frac{25}{24} \frac{648}{625} \frac{25}{24} \frac{25}{24} \frac{128}{125} \frac{25}{24} \frac{128}{125} \frac{25}{24} \frac{25}{24} \frac{648}{625} \frac{25}{24} \frac{25}{24} \frac{648}{625} \frac{25}{24} \frac{25}{24} \frac{128}{125} \frac{25}{24} \frac{128}{125} \frac{25}{24}$$

Perfect!



$$\frac{25}{18} \times \frac{25}{27} = \frac{625}{486} \times \frac{7}{9} = \frac{4375}{4374}$$

$$.4594 = 11/8$$

$$.4575 = \frac{225}{128} \times \frac{25}{32} = \frac{5625}{4096}$$

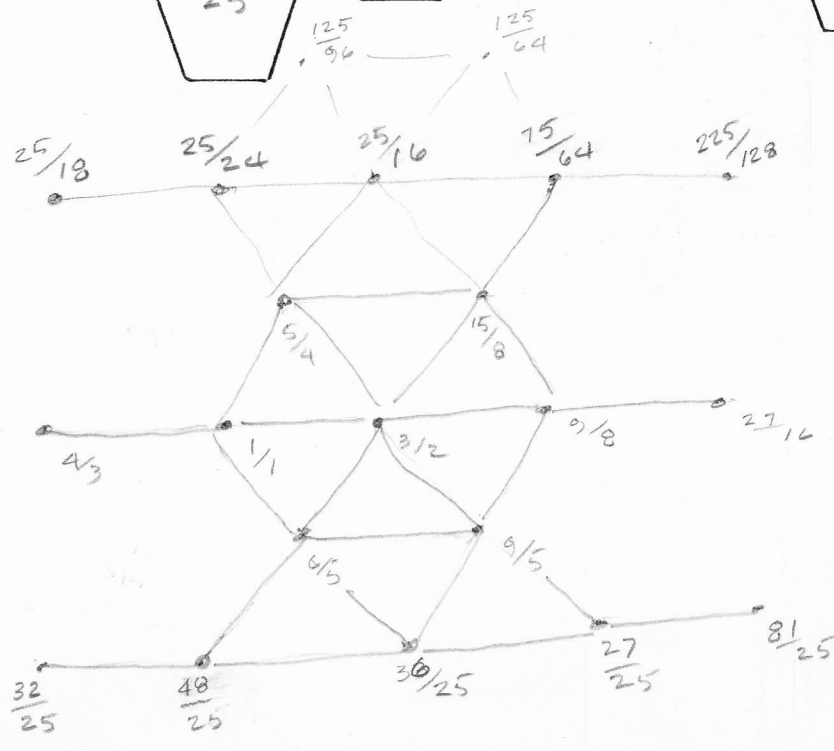
$$\frac{10019}{10019}$$

$$\frac{5}{4} - \frac{48}{25} = .3807$$

$$\frac{13}{10} = .3785$$

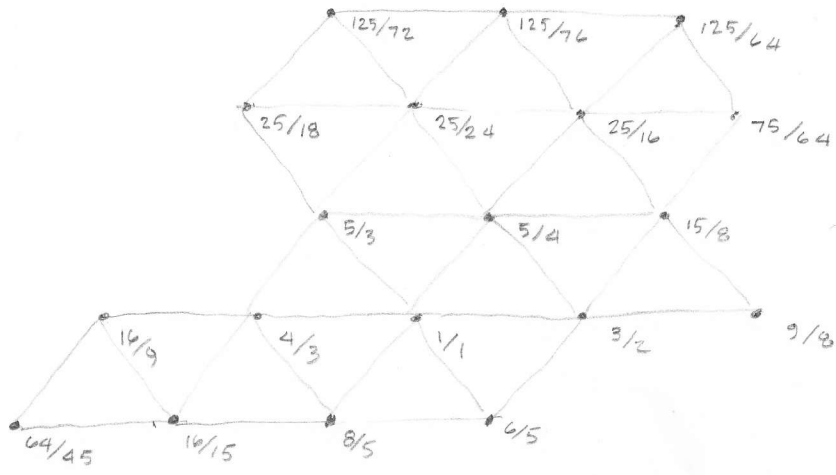
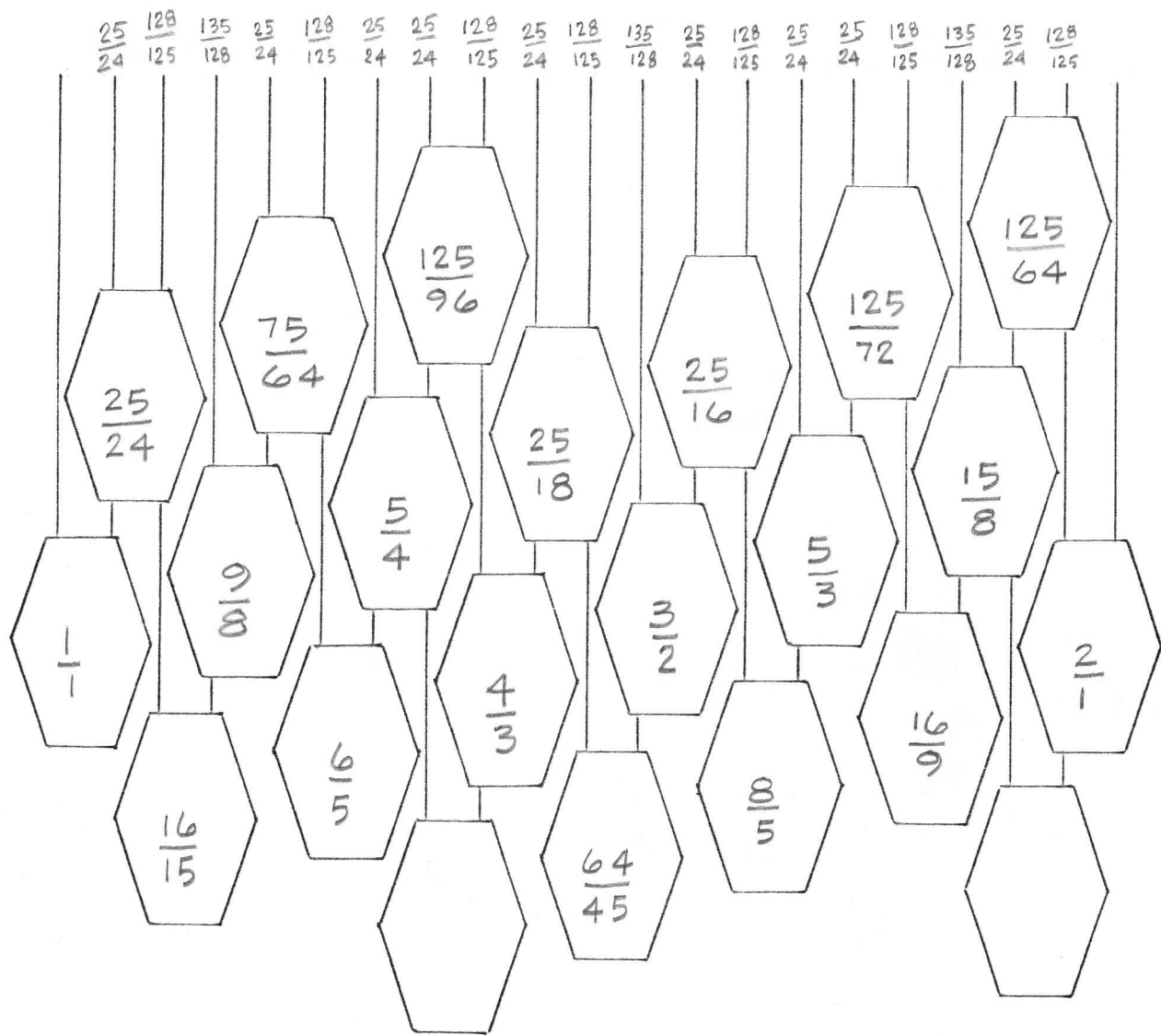
$$\frac{25}{18} - \frac{27}{25} = .3627$$

$$9/7 = .3625$$

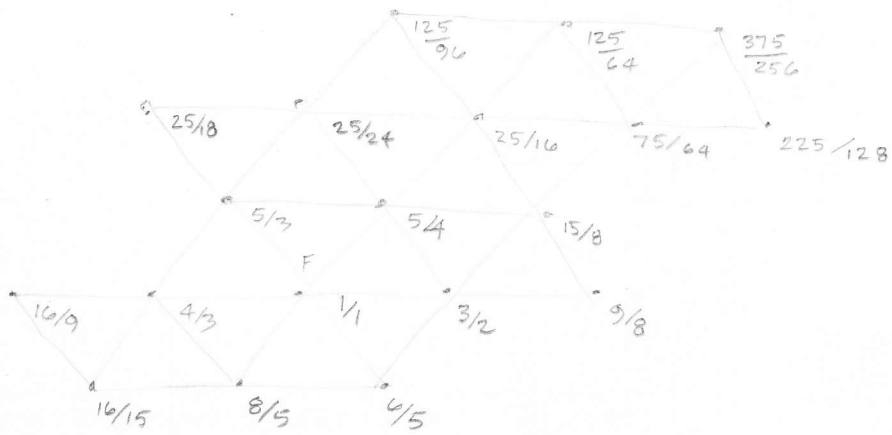
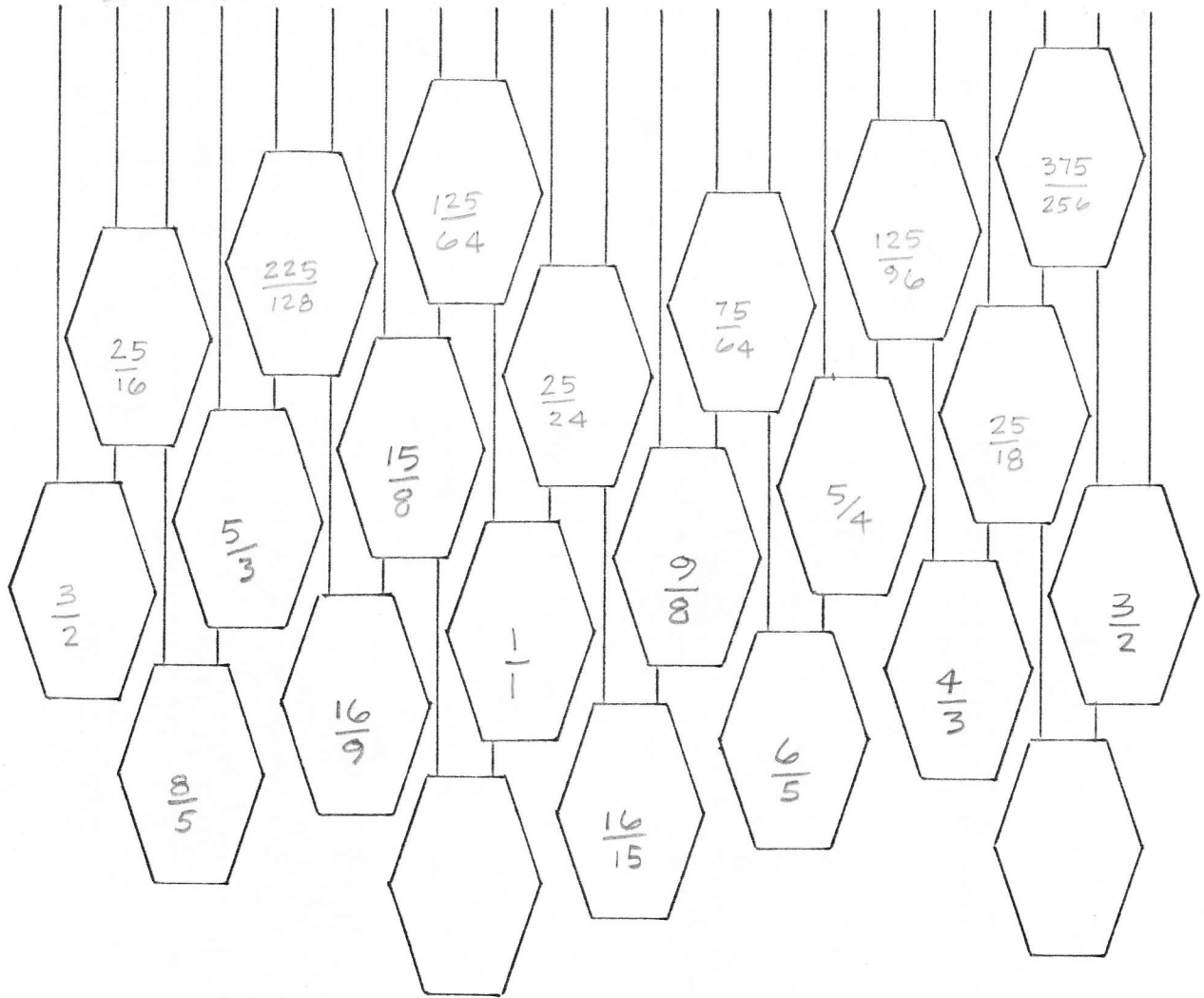


$$\frac{30}{25} - \frac{5}{4} = .2043$$

$$\frac{15}{13} = .2065$$

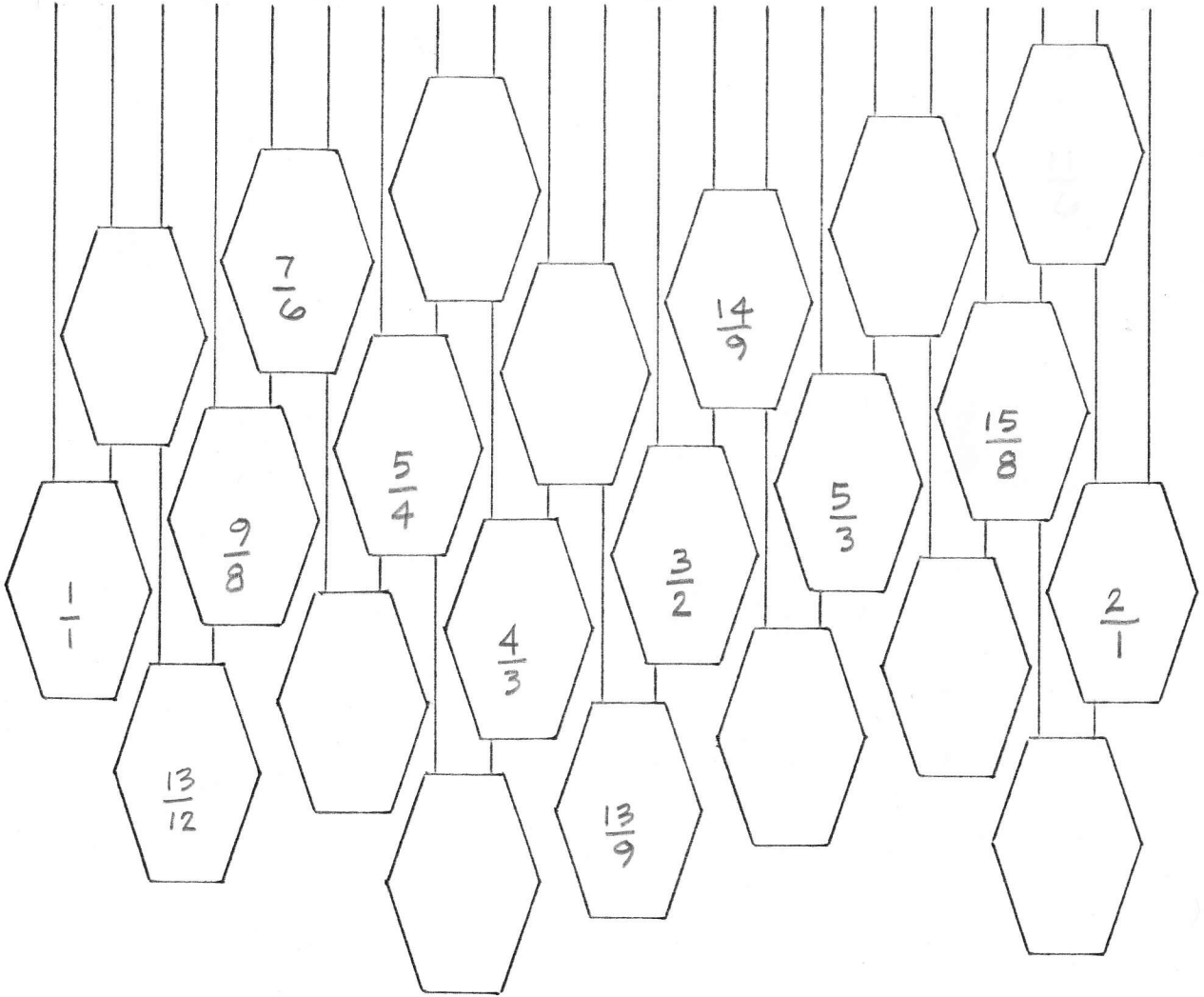


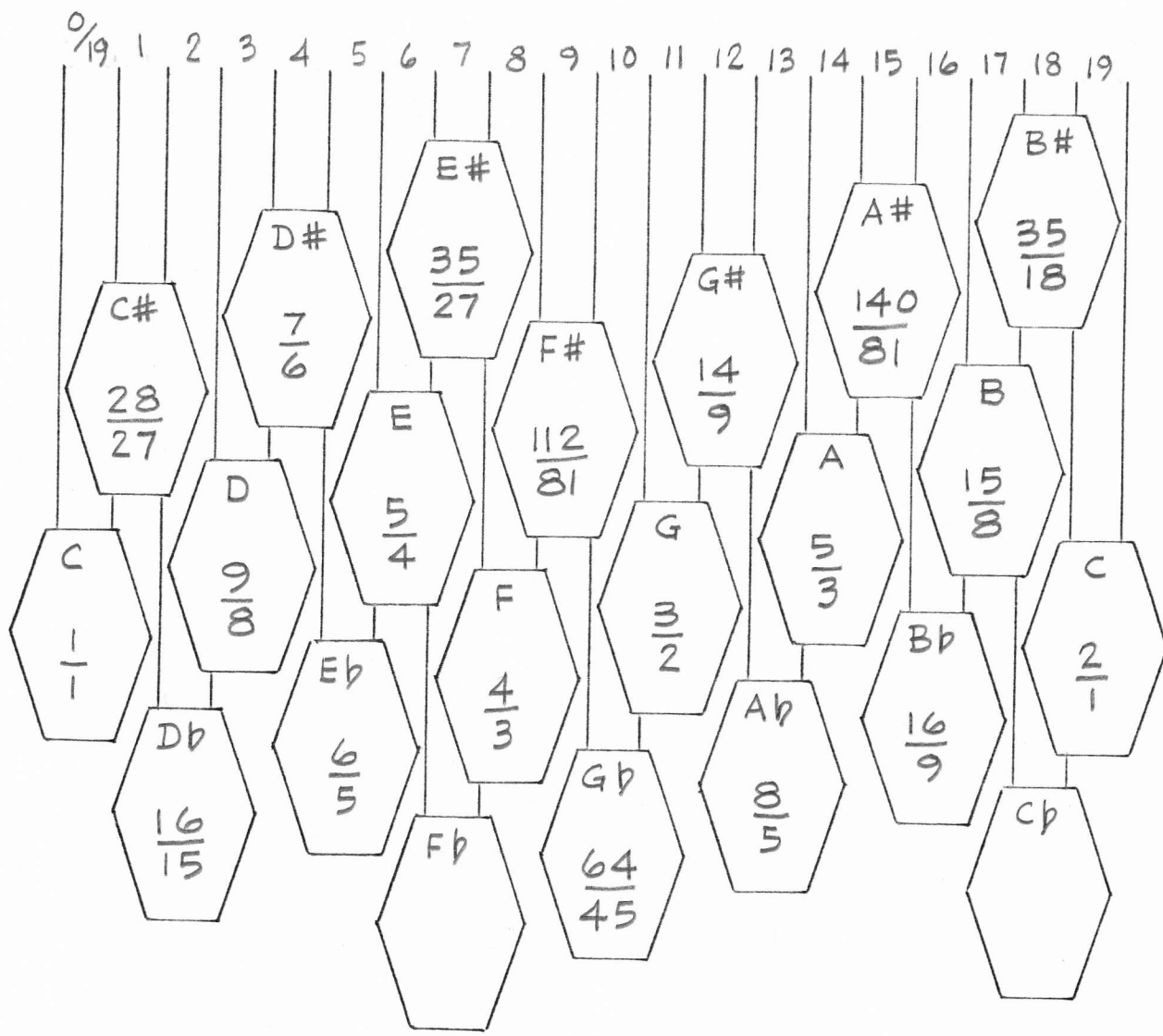
$$\frac{25}{24} \quad \frac{128}{125} \quad \frac{25}{25} \quad \frac{135}{128}$$



$$\frac{27}{26} \quad \frac{28}{27}$$

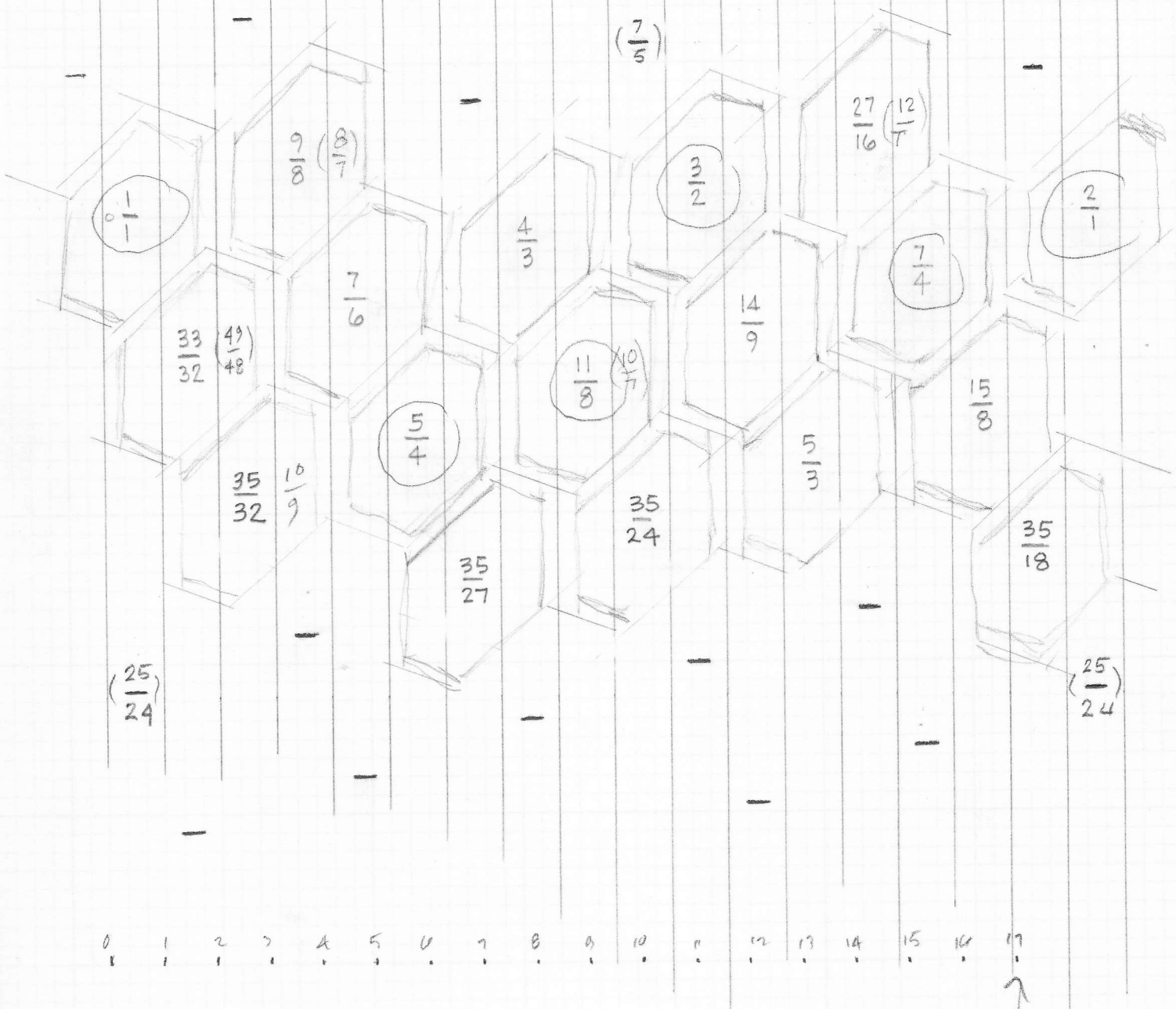
$$\frac{27}{26} \quad \frac{28}{27}$$





0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17/0

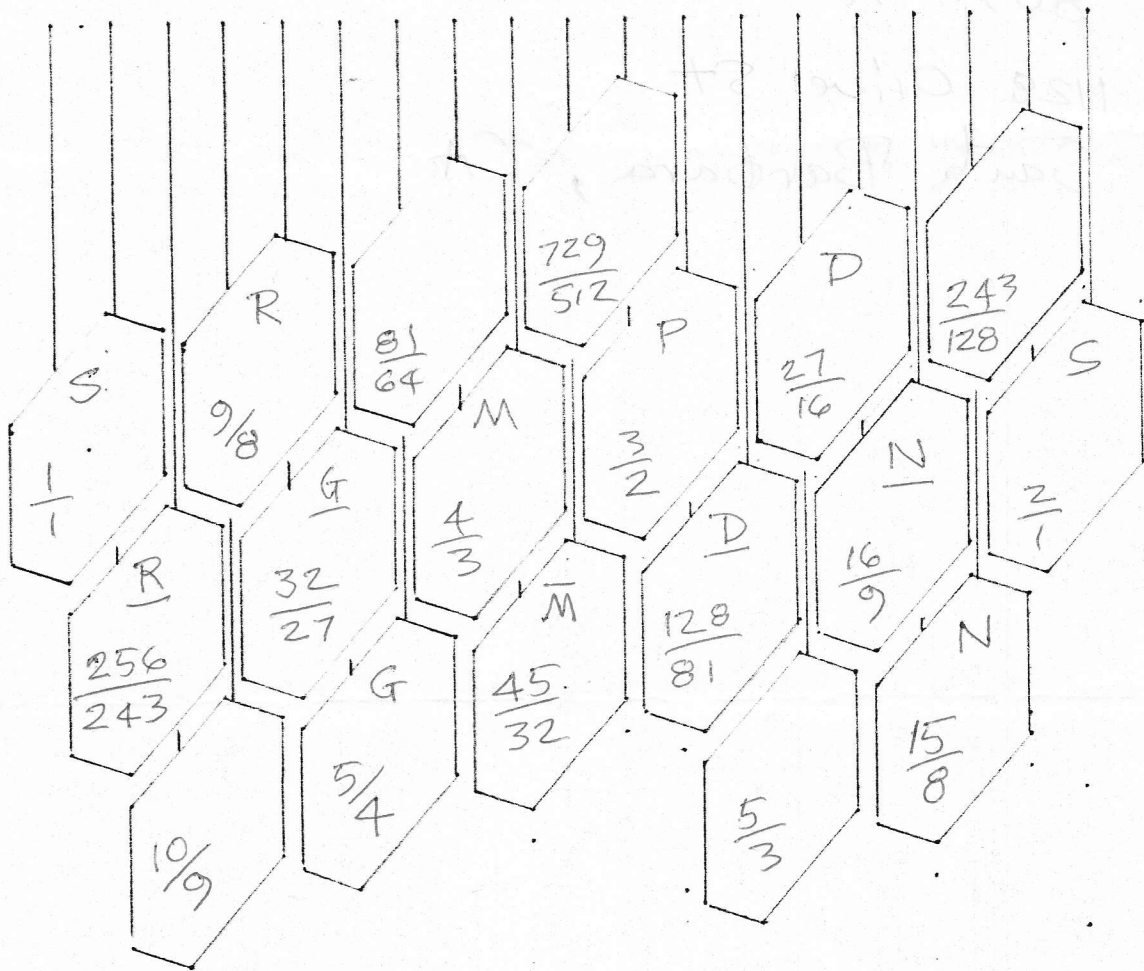
Sketch 17 claw, © 1988 by Erv Wilton

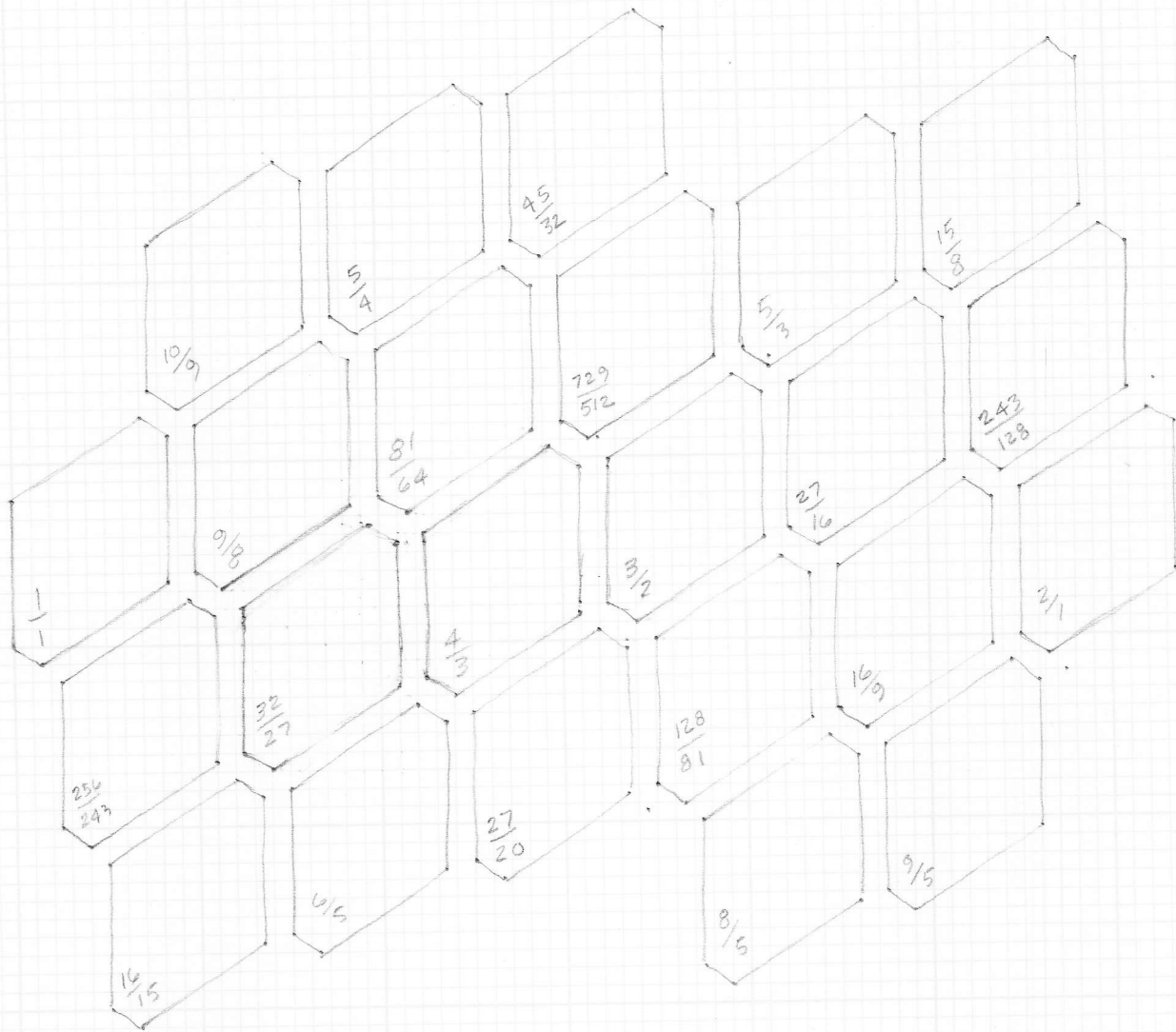


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

1/1	7/6	4/3	5/3	1/1	5/4	10/7	5/3
1/1	5/4	3/2	7/4	7/6	35/24	5/3	35/8
25/24	5/4	35/24	5/3	1/1	7/6	7/5	7/4
49/48	7/6	35/24	7/4	35/32	5/4	35/24	7/4

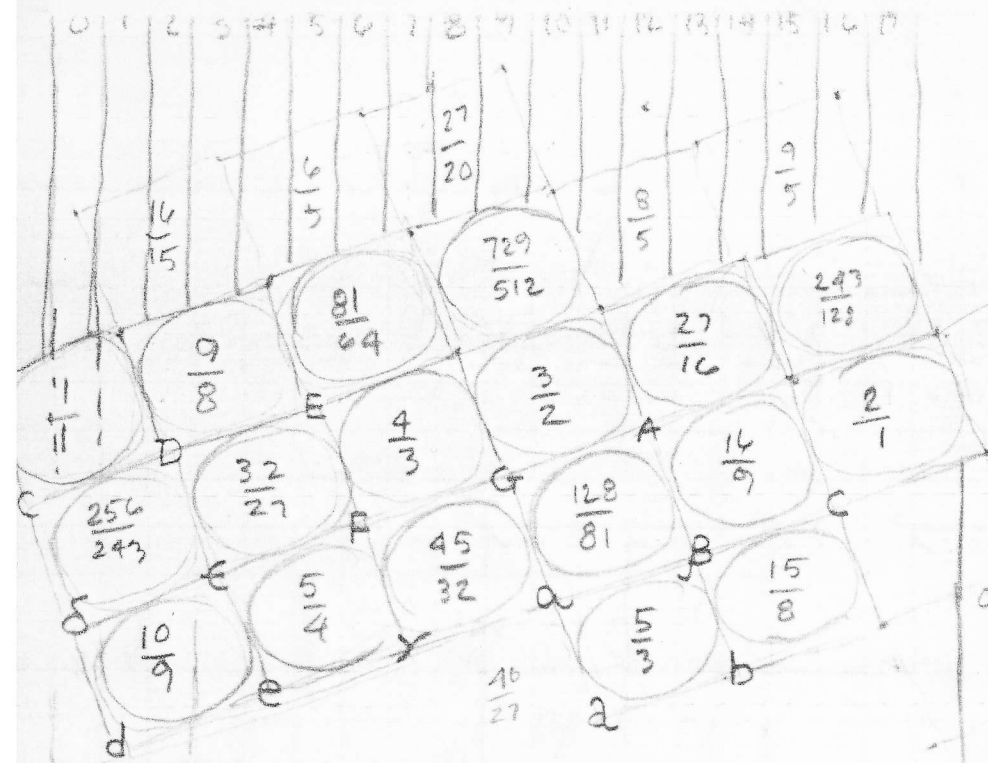
scale down
to
mm 154 ÷ 17 = 9
(6.02 inches)





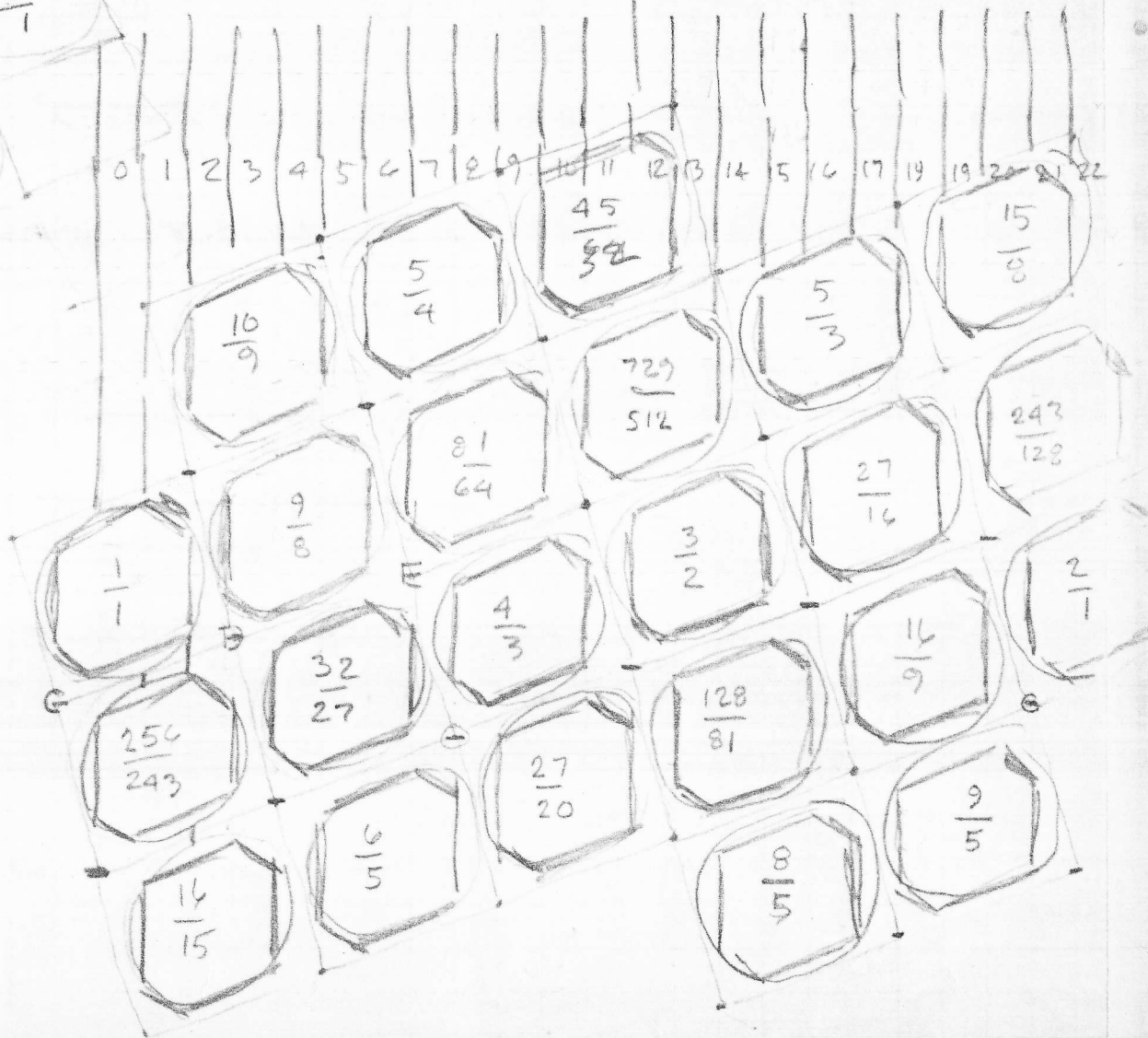
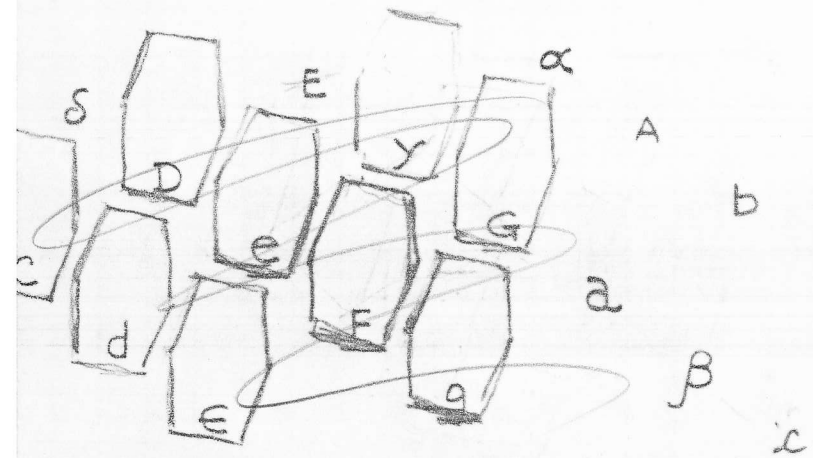
Design for a 22-levered Musical Instrument

© 1980 by Erv Wilson

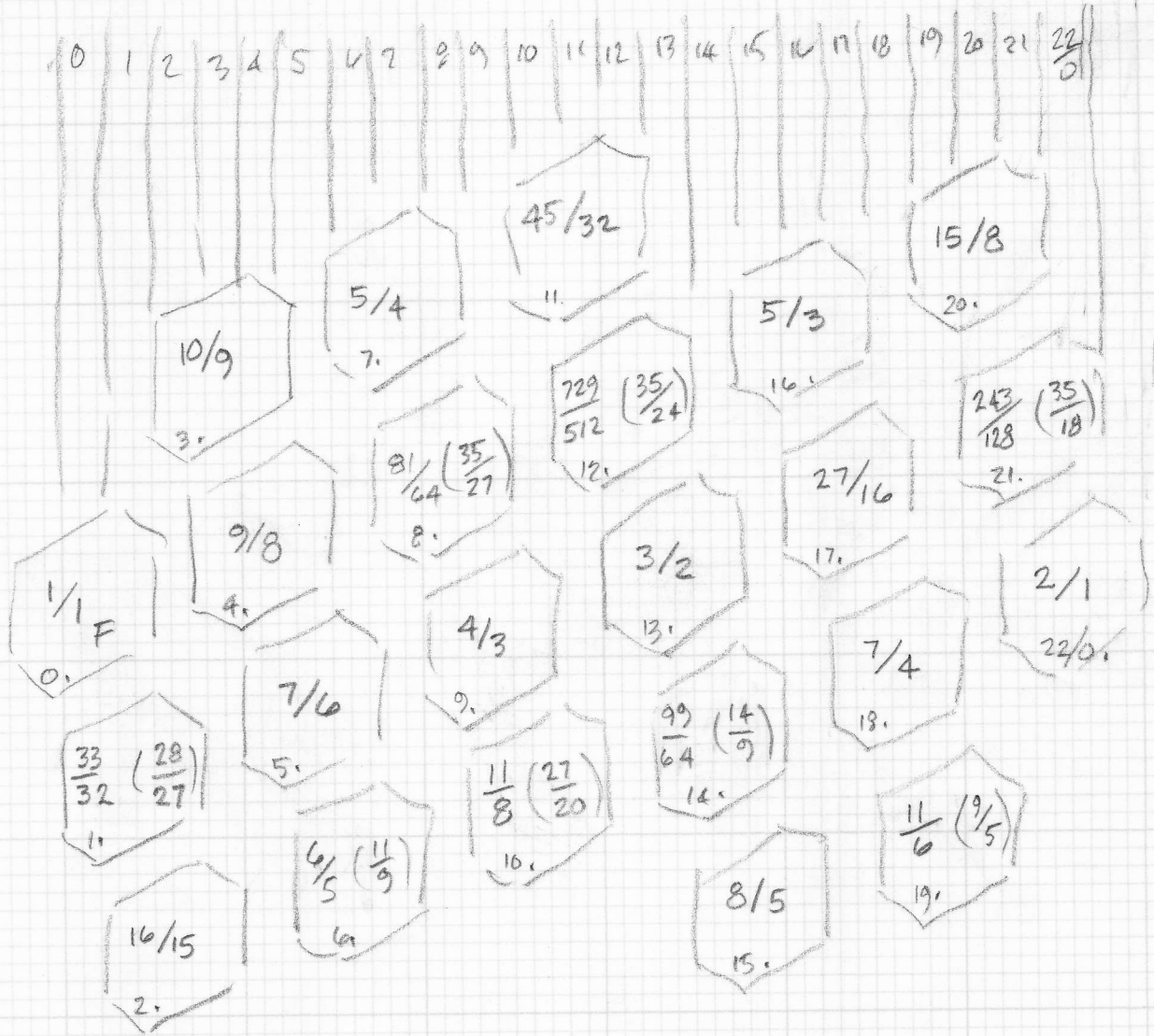


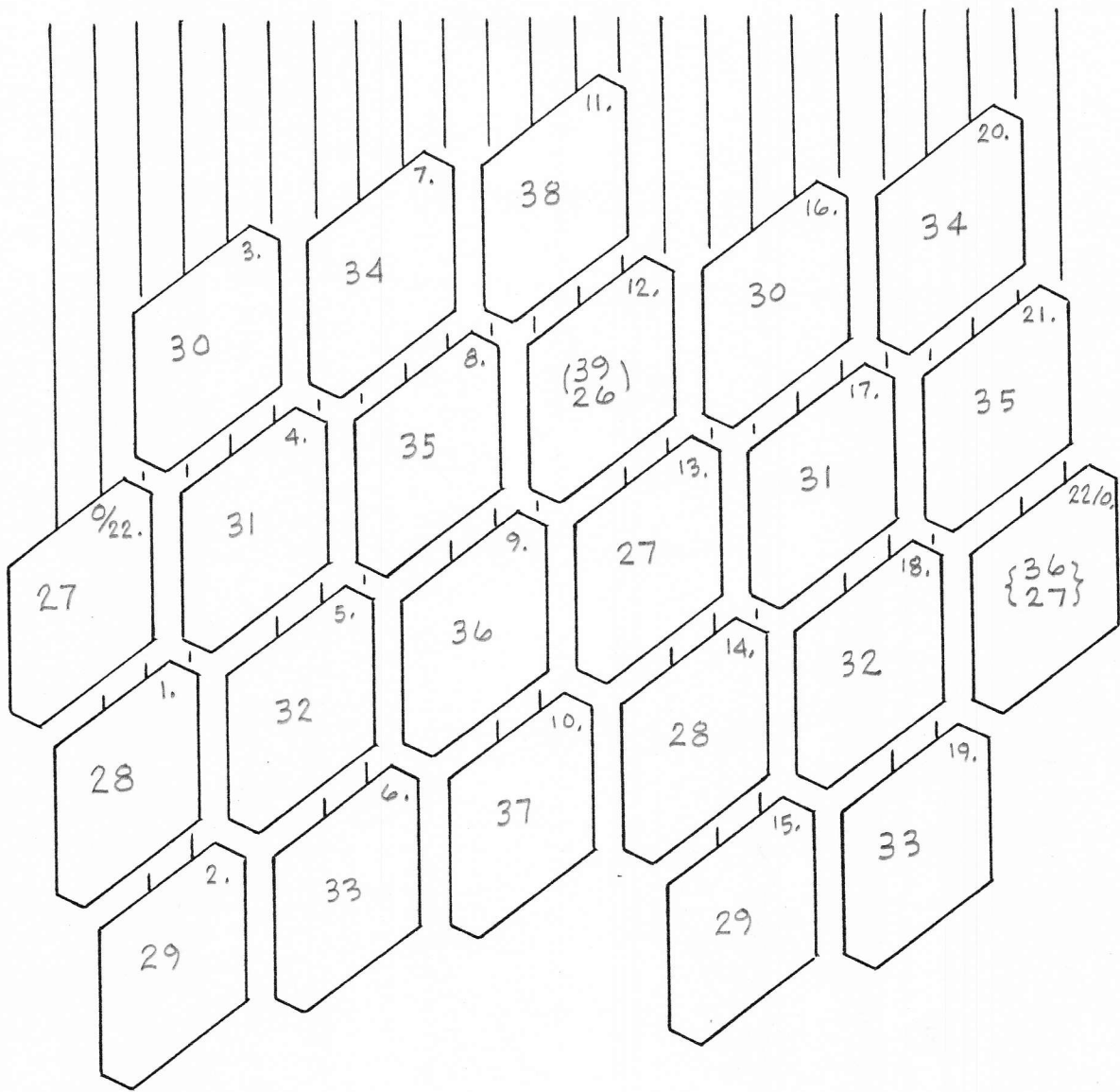
Design for a 17-Levered Musical Instrument

© 1980 by Erv Wilson

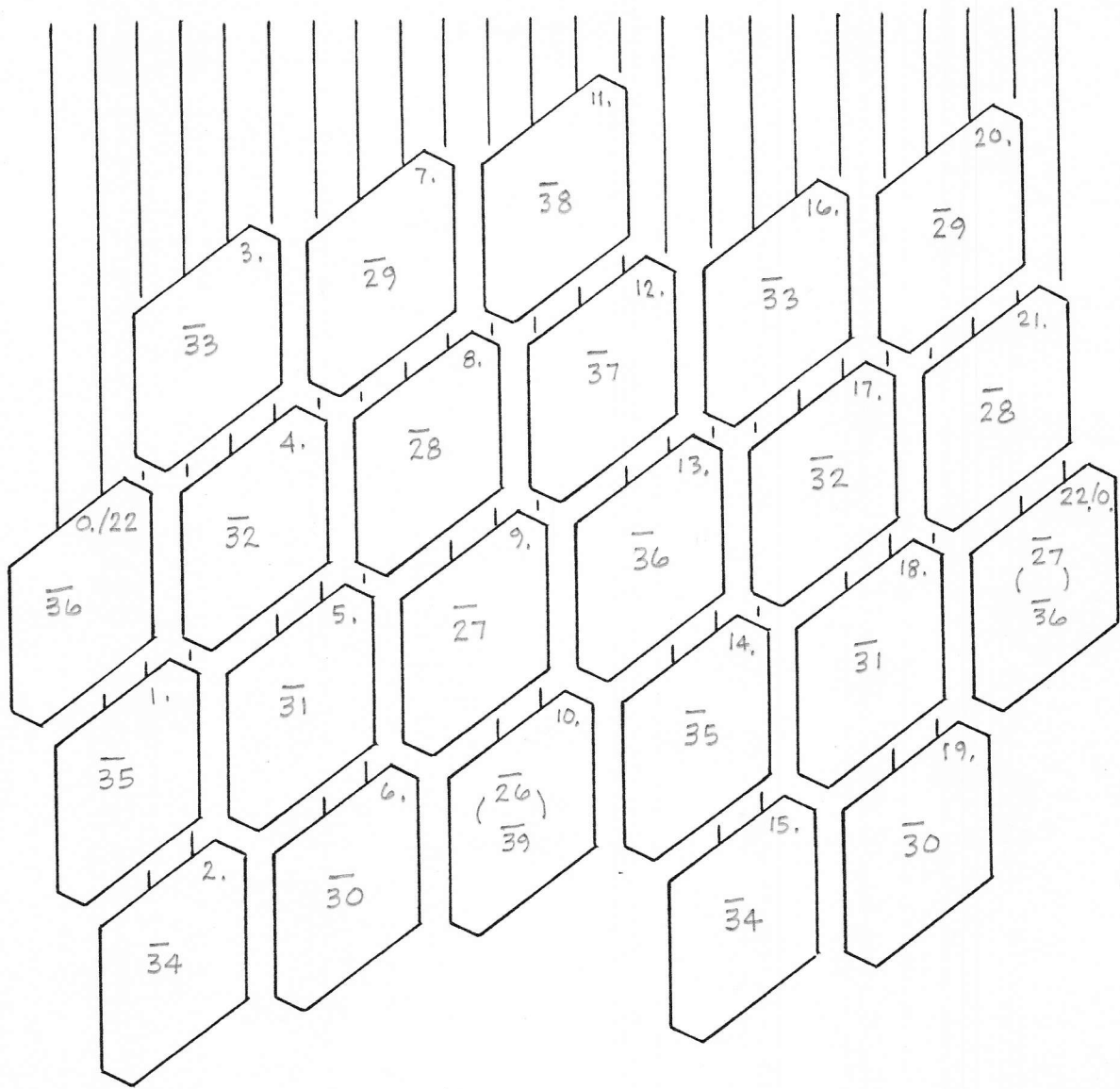


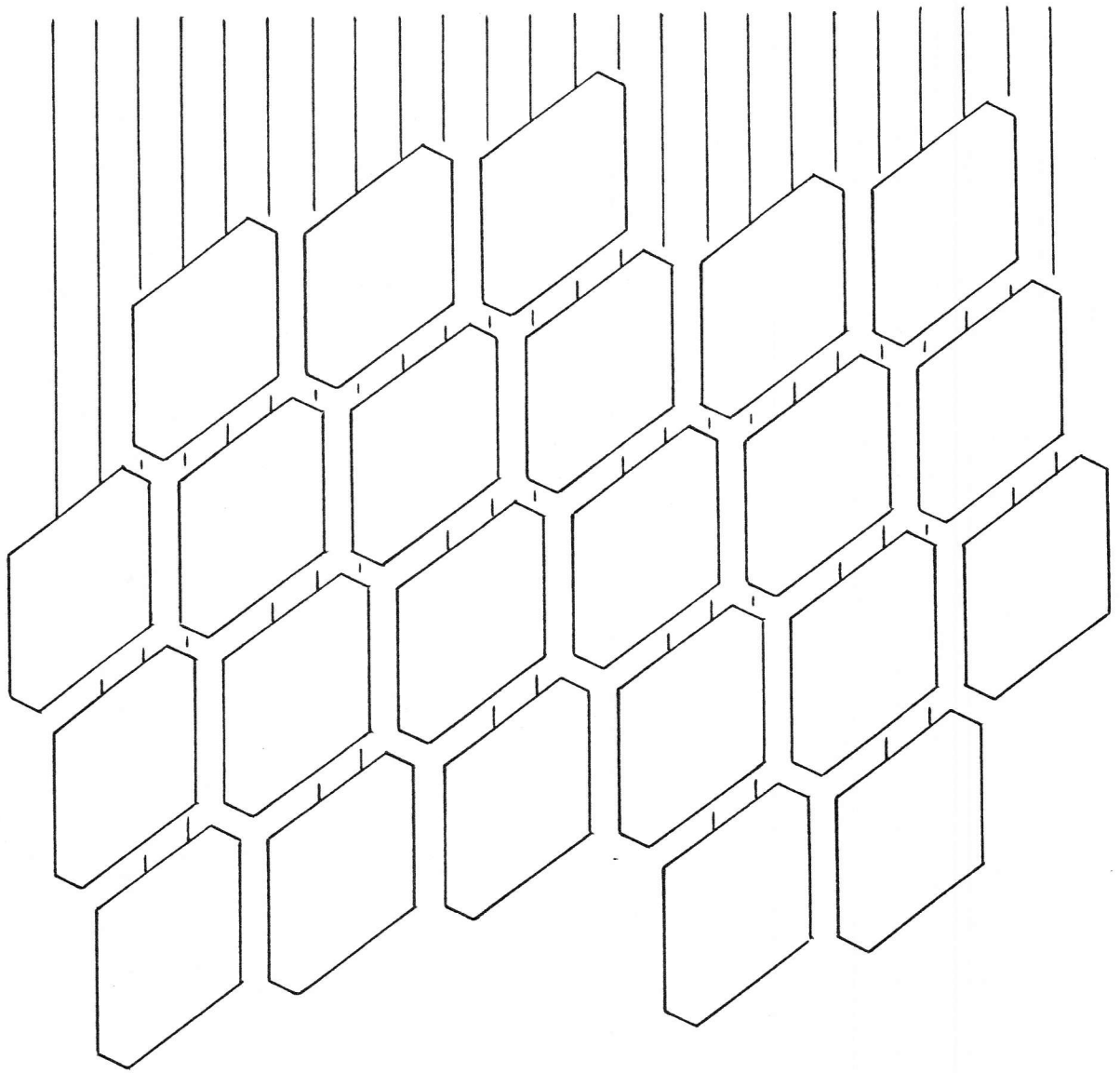
Sketch 22 Clavichord ©1980, 1988 by Eric Wilson

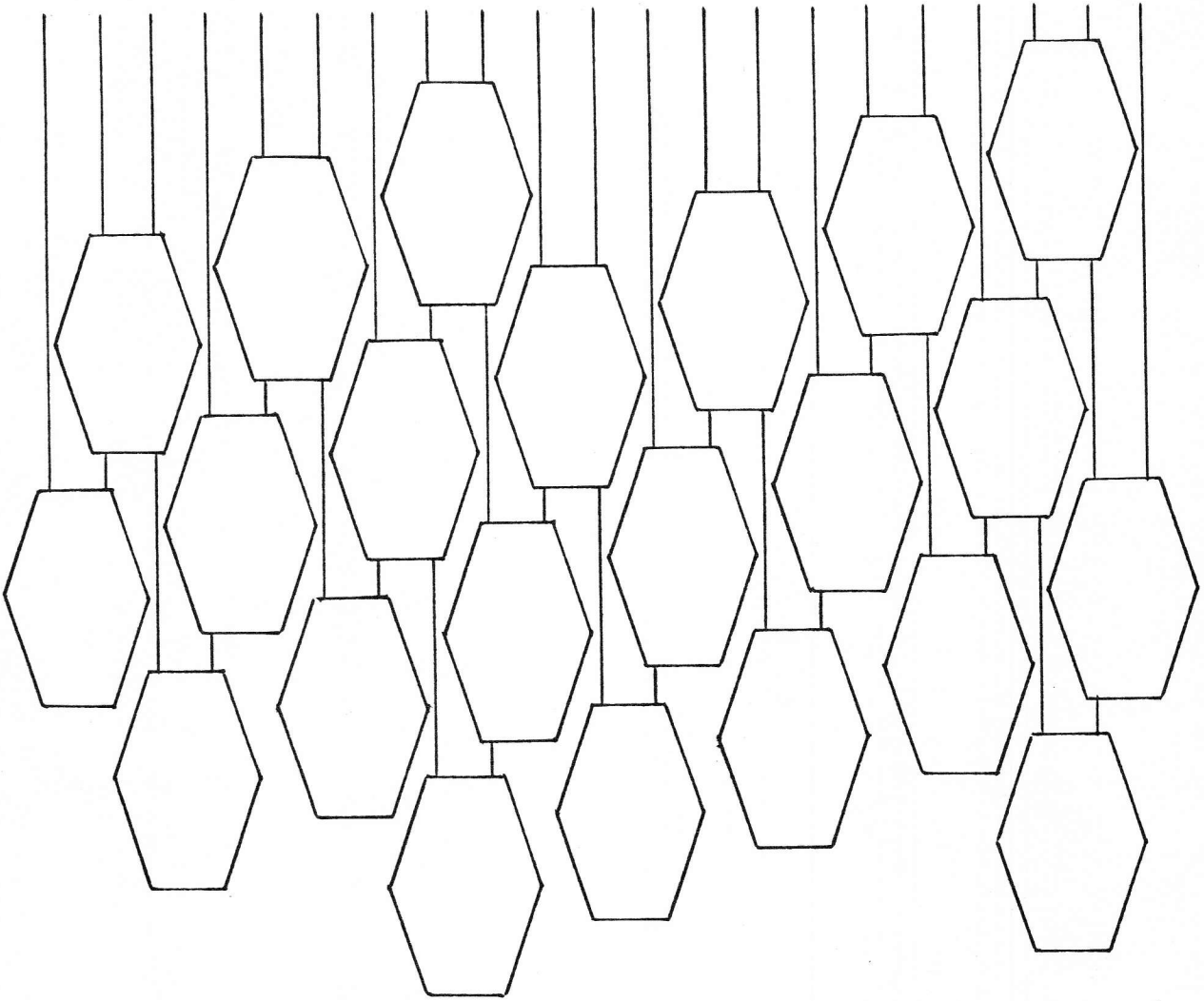




27 28 29 30 31 32 33 34 35 36
 27 28 32 36
 27 30 32 36
 27 28 35 36
 27 30 33 36
 27 28 30 36
 27 28 34 36
 27 28 32 34 36
 27 33 34 36
 27 30 35 36







0/17 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17/0

