

TAKING THE 15 HEXANIES
POSSIBLE WITHIN 1-3-5-7-9-11
TONE SPACE, WILSON LATTICES
THE RESULT OF STELLATING
WITH THE TWO FACTORS NOT
FOUND IN THE HEXANY.

SOME INTERESTING THINGS RESULT
IN THE 14 TONE STRUCTURE
BEST ILLUSTRATED BY EXAMPLE

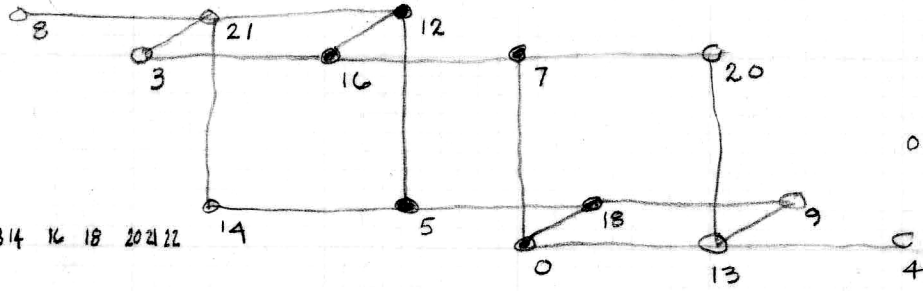
IN THE CASE OF THE 1 3 5 7 - 9
THE FOLLOWING HEXANIES APPEAR TWICE
1 3 5 9 (9/7 APART)
1 3 7 9 (9/5 APART)
1 5 7 9 (9/3 APART)

3 5 7 9 APPEARS ONLY ONCE?
WHILE IN OTHERS THIS LAST SET OF
THREE MIGHT NOT APPEAR AT ALL?

K. G. 6/7/16

ARTICULATE

0 3 4 5 7 8 9 12 13 14 16 18 20 21 22

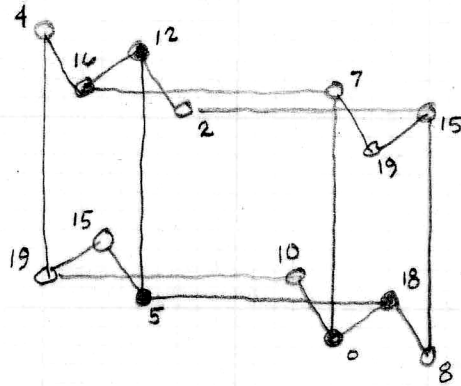


1 3 5 7 9

0 3 4 5 7 8 9 13 14 16 18
12 20 21

double 19 } $\frac{3 \cdot 5}{11^2}$ fusion
" 15 }

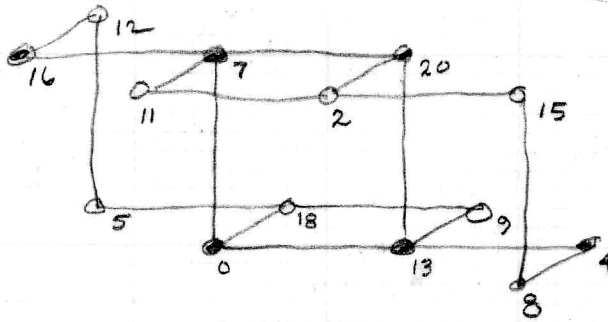
0 2 4 5 7 8 10 12 15 16 18 19 22



1 3 5 7 11

ARTICULATE

0 2 4 5 7 8 9 11 12 13 15 16 18 20

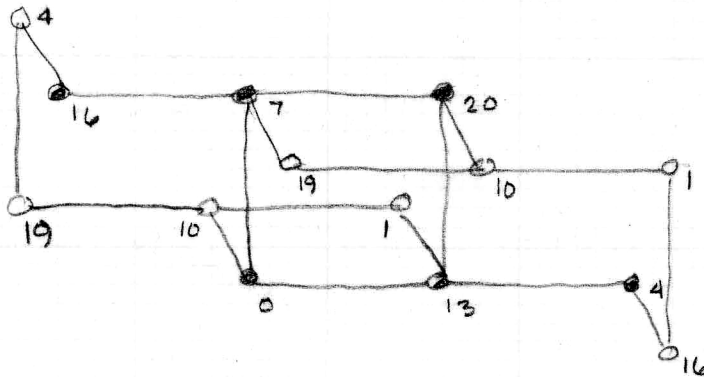


1 3 5 9 7

double 4 } $\frac{3^2}{5 \cdot 11}$ Fusion
16 }

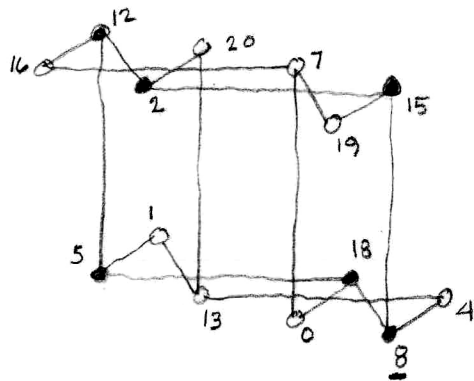
double 19 } $\frac{3 \cdot 5}{11^2}$ fusion
10 }
1 }

0 1 4 7 10 13 14 19 20



1 3 5 9 - 11

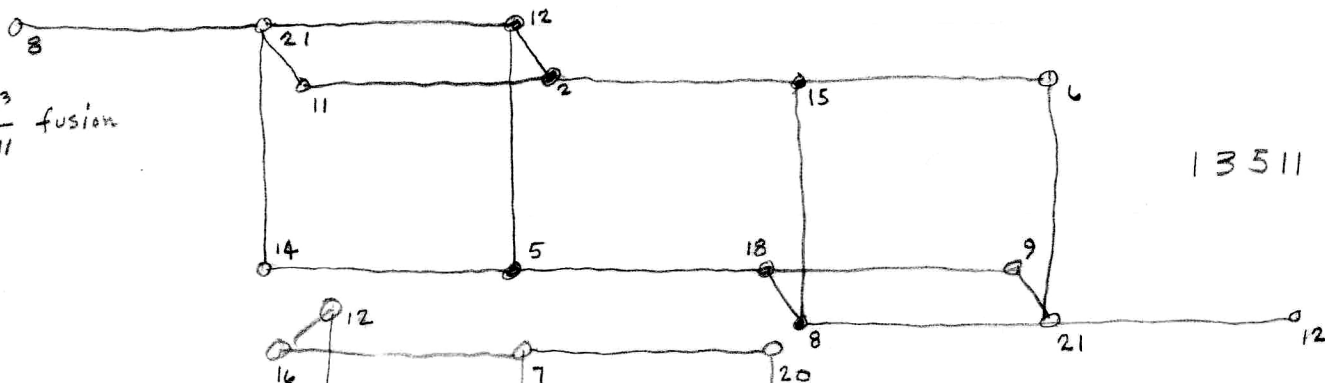
Articulate



13511 7

0 1 2 4 5 7 8 12 13 15 16 18 19 20 22

2 5 6 8 9 11 12 14 15 18 21



13511 9

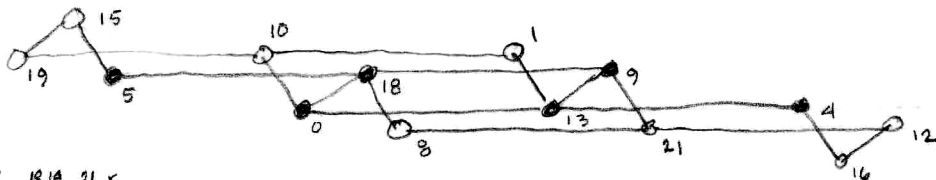
2bl 8 } 3^3 fusion
21 } 511
12 }

ARTICULATE

0 2 4 5 7 9 11 12 13 15 16 18 19 20 x

1379 5

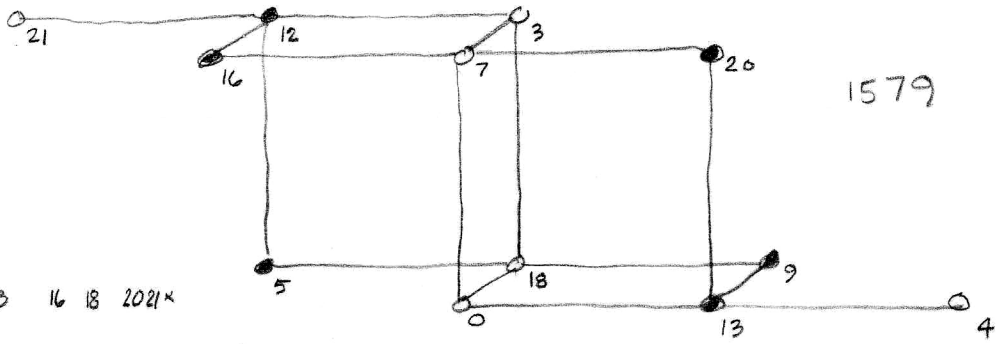
Articulate



1379 11

0 1 4 5 8 9 10 12 13 15 16 18 19 21 <

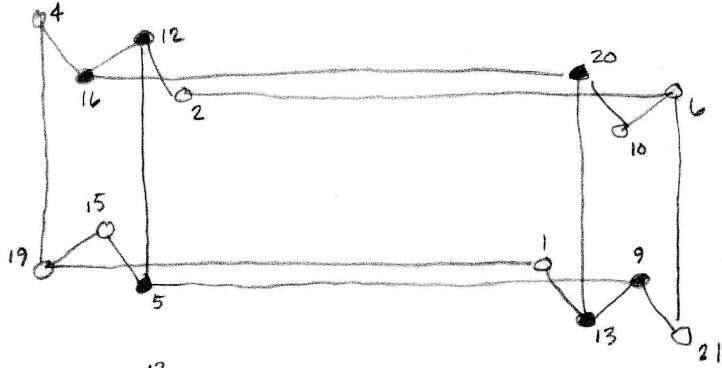
See A13 Lattice
on B size



1579 3

Articulate

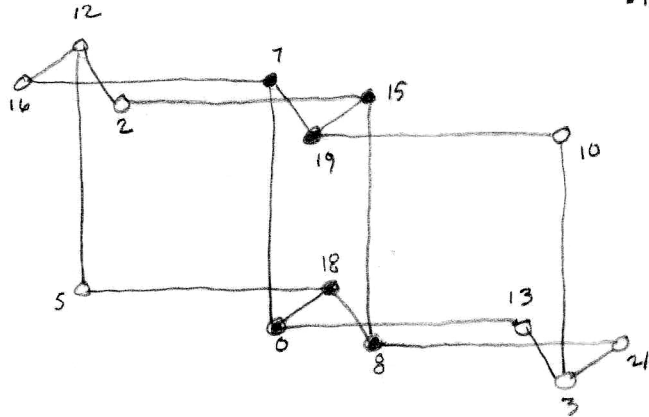
0 3 4 5 7 9 12 13 16 18 20 21*



1579 11

Articulate

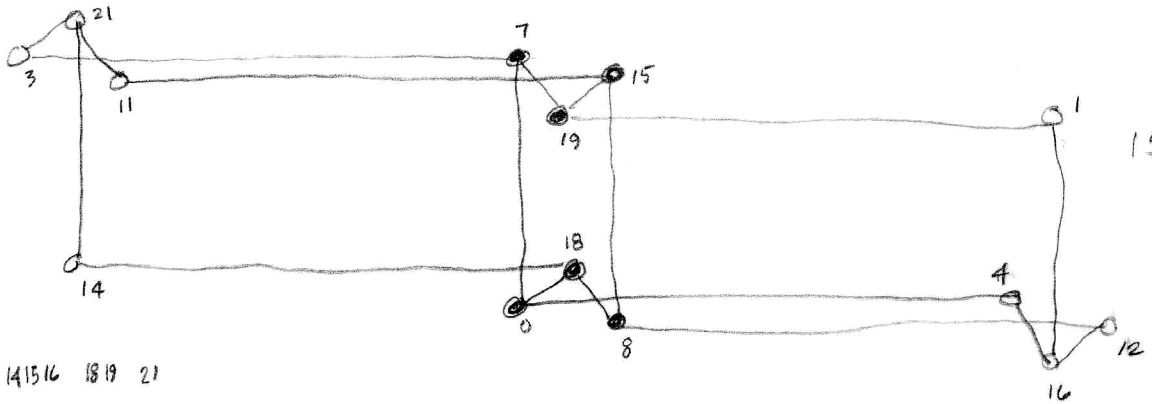
1 2 4 5 6 9 10 12 13 15 16 19 20 21



15711 3

Articulate

0 2 3 5 7 8 10 12 13 15 16 18 19 21



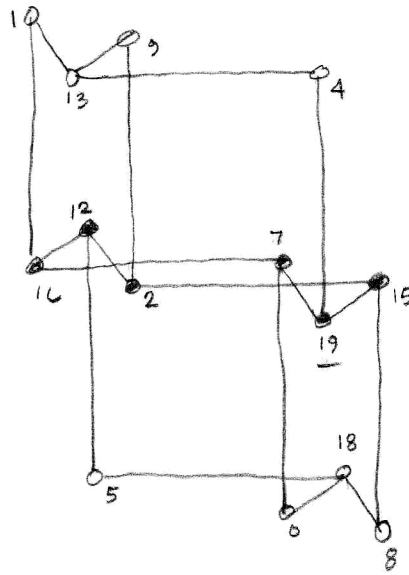
15711 9

Articulate

0 1 3 4 7 8 11 12 14 15 16 18 19 21

Articulate

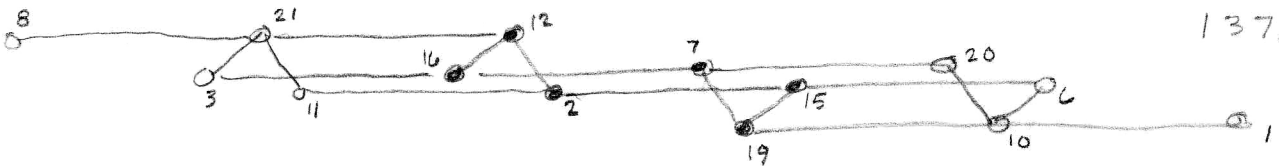
0 1 2 4 5 7 8 9 12 13 15 16 18 19 x



13711 5

1 2 3 6 7 8 10 11 12 15 16 19 20 21

Articulate

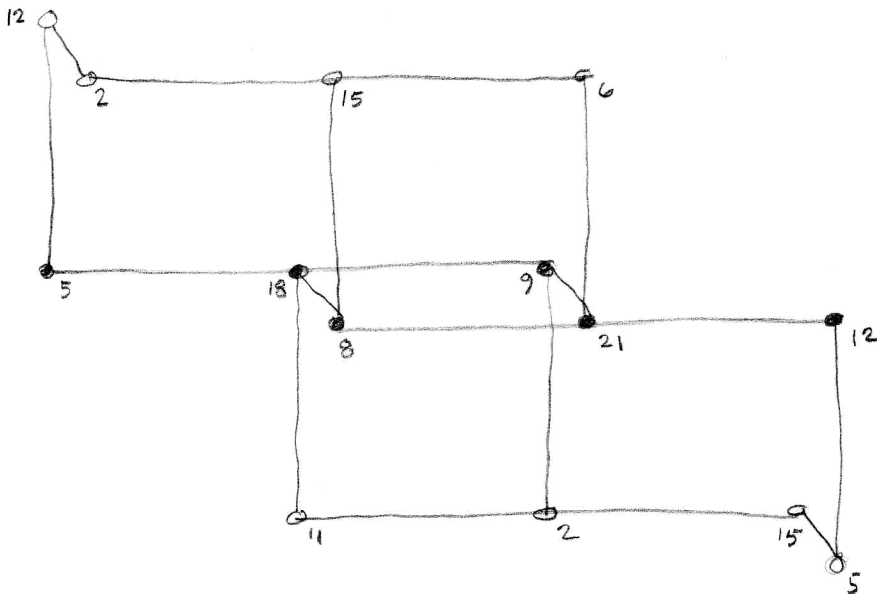


13711 9

see B sig
4:3 Lattice

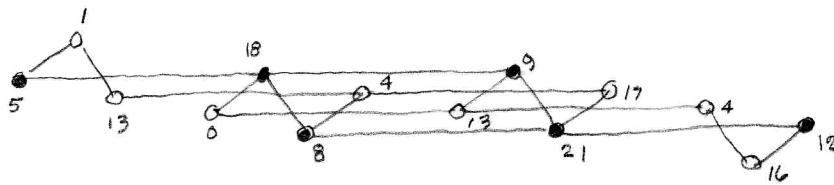
double 15 } $\frac{3^2 \cdot 11}{5 \cdot 2}$ fusion
2 }

double 12 } $\frac{3^3}{5 \cdot 11}$ fusion
5 }



13911 5

double 13 } $\frac{3^2 \cdot 11}{7 \cdot 2}$ fusion
4 }

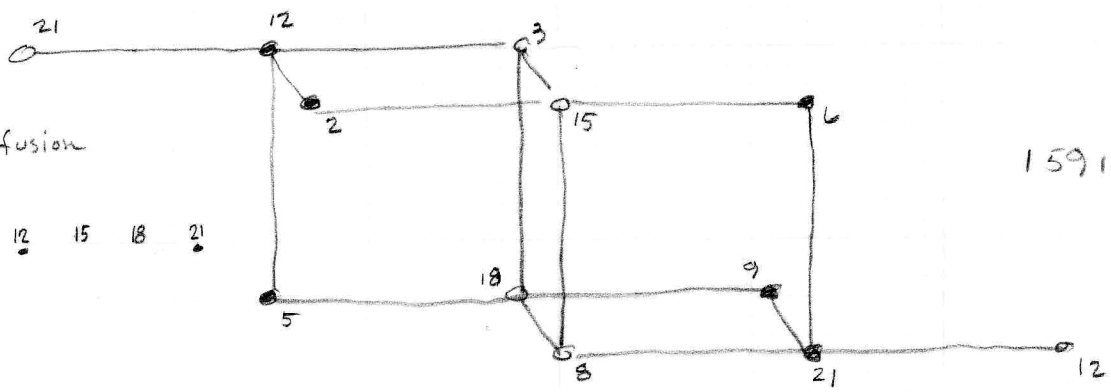


13911 7

0 1 4 5 8 9 12 13 16 17 18 21

2ble $\left. \begin{matrix} 21 \\ 12 \end{matrix} \right\} \frac{3^3}{5 \cdot 11} \text{ fusion}$

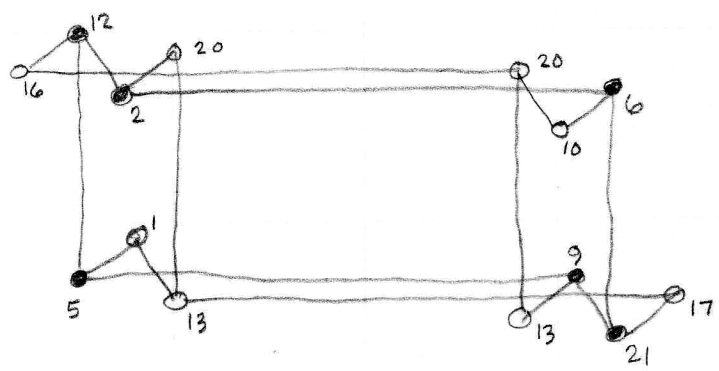
23 56 89 12 15 18 21



15911 3

2ble $\left. \begin{matrix} 13 \\ 20 \end{matrix} \right\} \frac{3^2 \cdot 11}{7^2} \text{ fusion}$

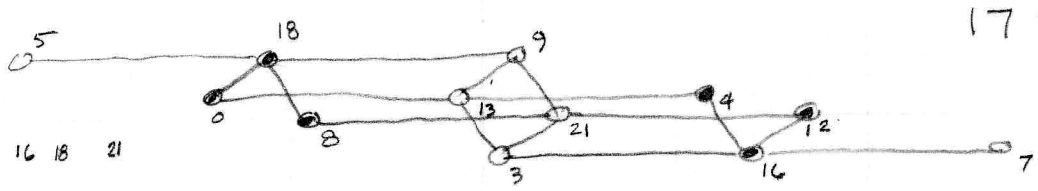
12 56 910 1213 1617 2021



15911 7

Articulate

0 345 789 1213 16 18 21

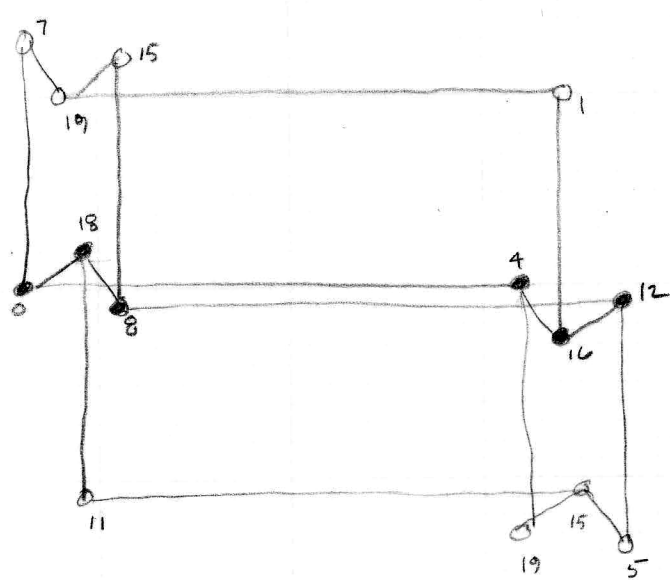


17911 3

2ble $\left. \begin{matrix} 19 \\ 15 \end{matrix} \right\} \frac{11}{5^2 \cdot 7} \text{ fusion}$

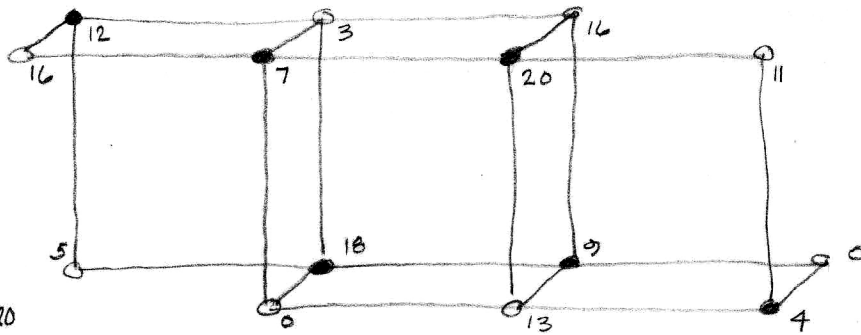
01 45 78 1112 1516 1819

$\frac{176}{175}$ $\frac{16}{16}$



17911 5

2ble 16 } $3^2 \cdot 7$ fusion
 0

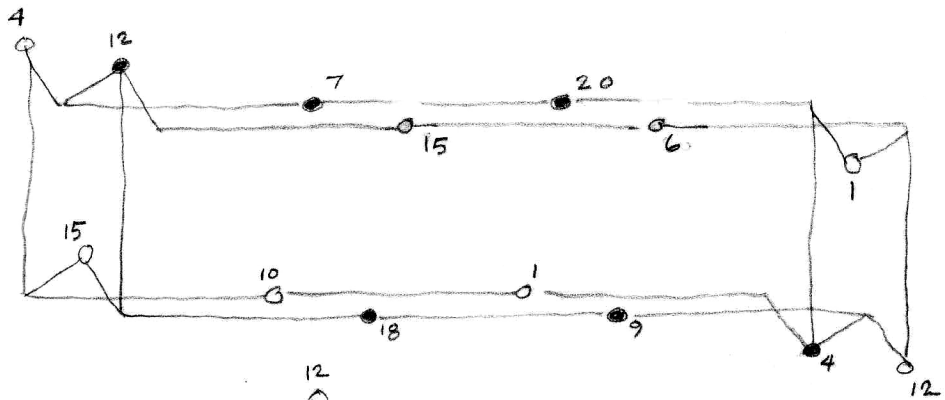


3579 1

0 3 4 5 7 9 11 12 13 16 18 20

2ble 1 } $\frac{3 \cdot 5}{11 \cdot 2}$ fusion
 15

4 } $\frac{3^3}{5 \cdot 11}$
 12



3579 11

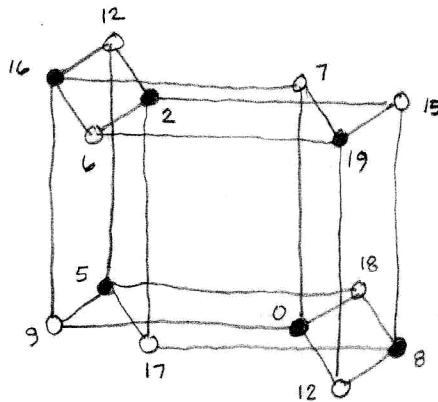
1 4 6 7 9 10 12 15 18 20

2ble 12 } $\frac{3}{5 \cdot 7 \cdot 11}$

24
 16
 144
 24
 384

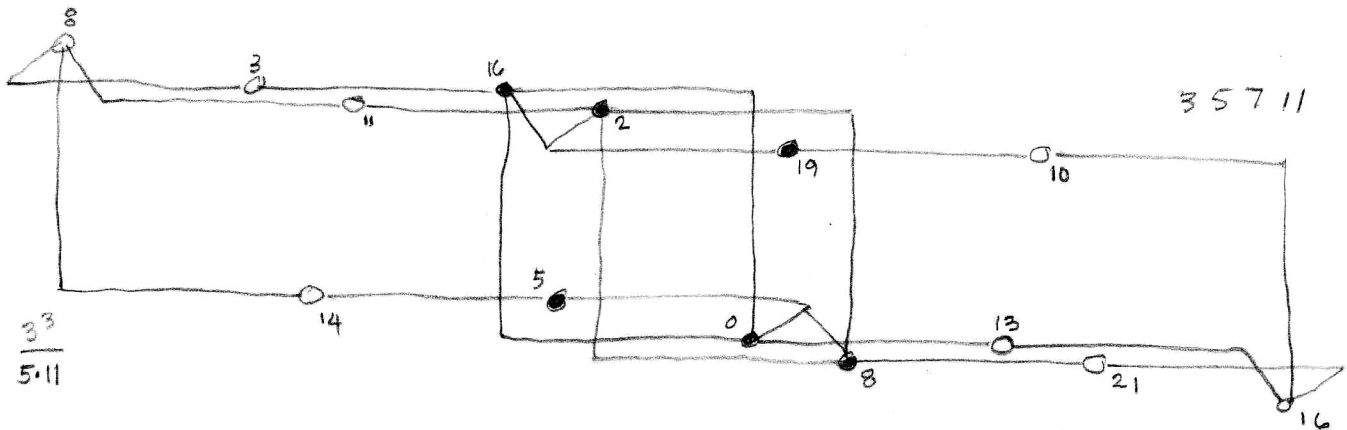
35
 35
 385 .58872
 384 .38496
 100376

very small fusion



35711 1

0 2 5 6 7 8 9 12 15 16 17 18 19

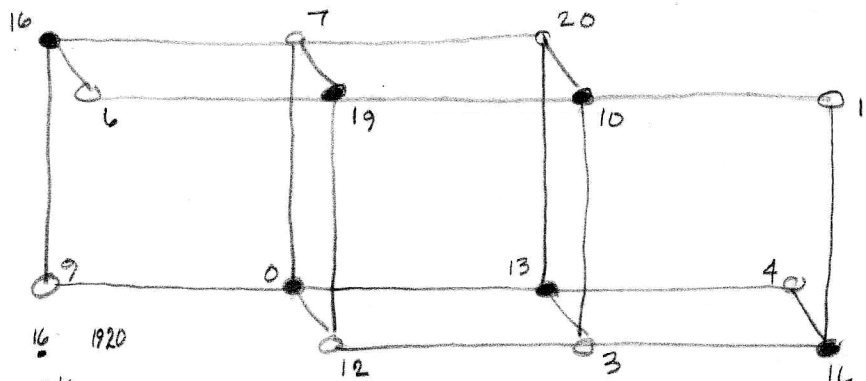


35711 9

2ble 8 } $\frac{3^3}{5 \cdot 11}$
 16

0 2 3 5 8 10 11 13 14 16 19 21

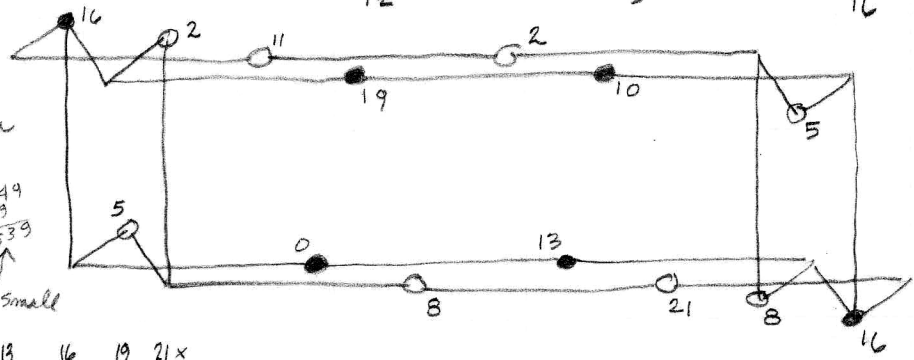
2ble 16, $\frac{3^3}{5 \cdot 11}$ fusion



35911 1

0 1 3 4 6 7 9 10 12 13 16 19 20

2ble 27, $\frac{3^3 \cdot 11}{72}$ fusion

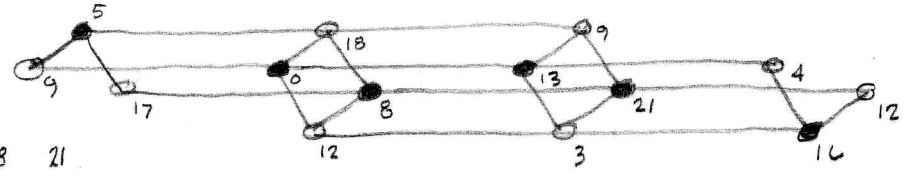


35911 7

0 2 5 8 10 11 13 16 19 21x

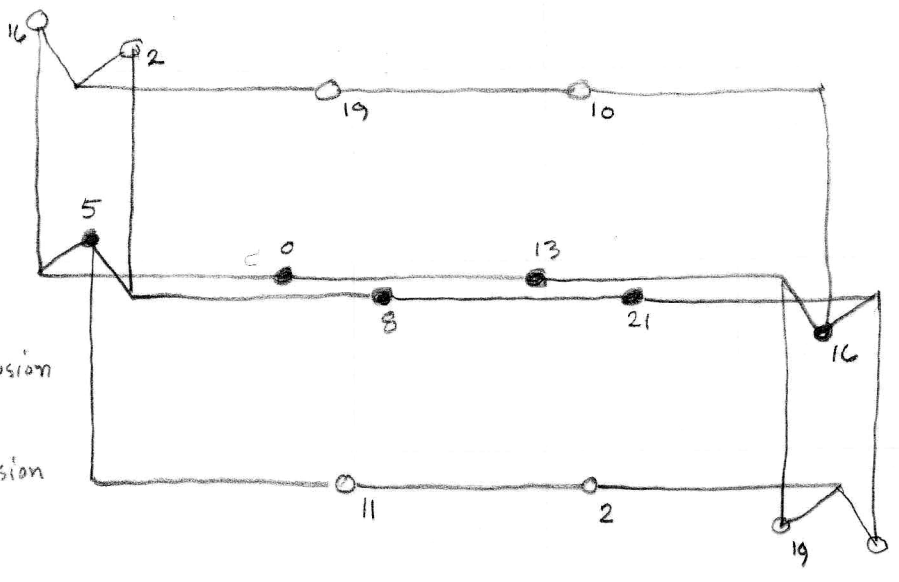
16, $\frac{3^3}{5 \cdot 11}$ fusion
 5, $\frac{3^3 \cdot 5}{7 \cdot 11}$ ← small

2ble 9, 12 } $\frac{3^2 \cdot 7}{5}$ fusion



37911 1

0 3 4 5 8 9 12 13 16 17 18 21



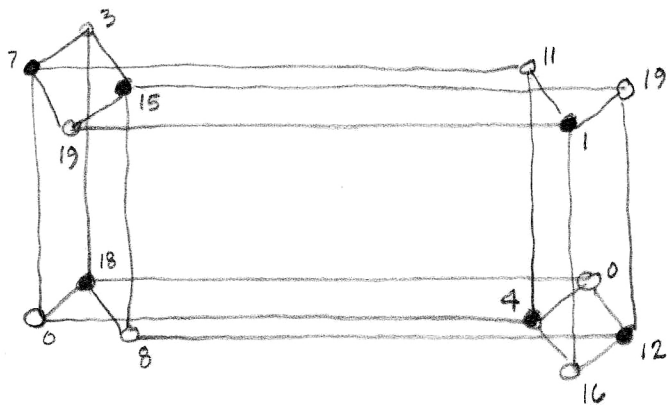
37911 3

2ble 5, 16 } $\frac{3^3}{5 \cdot 11}$ fusion

2, 19 } $\frac{3^2 \cdot 11}{5 \cdot 2}$ fusion

0 2 5 8 10 11 13 16 19 21

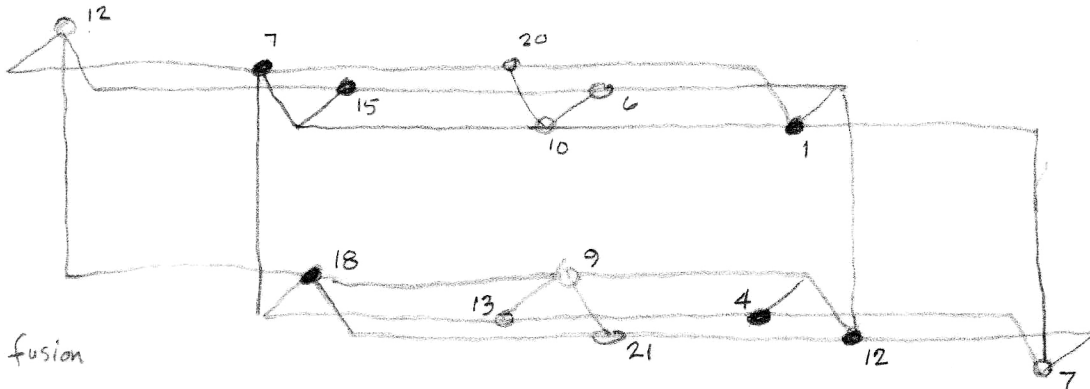
2ble $\left. \begin{matrix} 07 \\ 9 \end{matrix} \right\} 3^2, 7$ fusion



57911 1

0 1 3 4 7 8 11 12 15 16 18 19

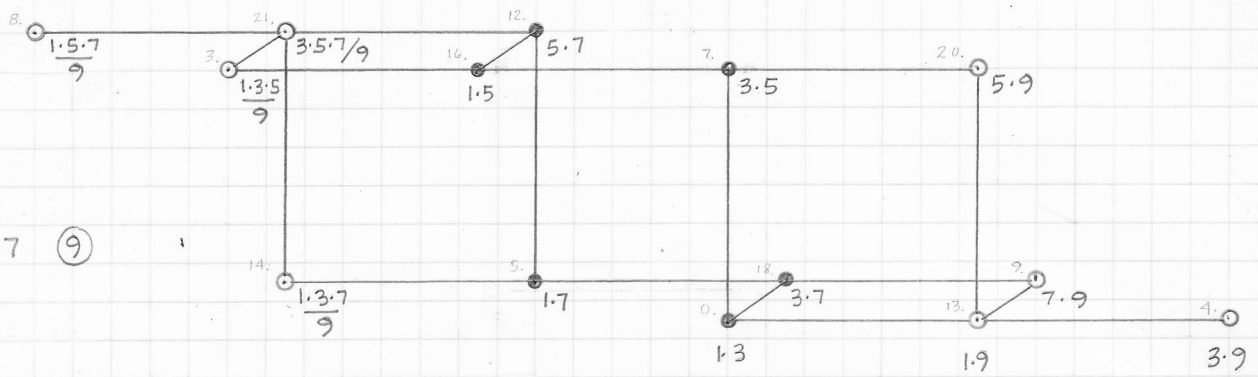
2ble $\left. \begin{matrix} 12 \\ 7 \end{matrix} \right\} \frac{3^3}{5, 11}$ fusion



57911 3

1 4 6 7 9 10 12 13 15 18 20 21

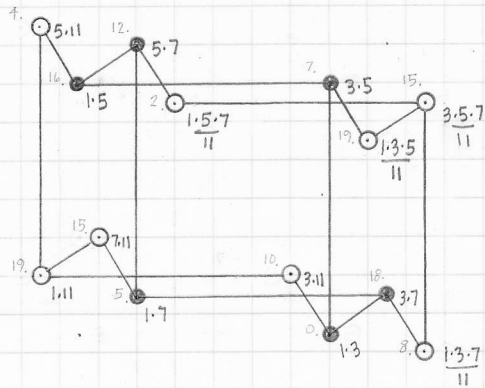
1 3 5 7 (9)



1 3 5 7 9

22 articulate

1 3 5 7 (11)

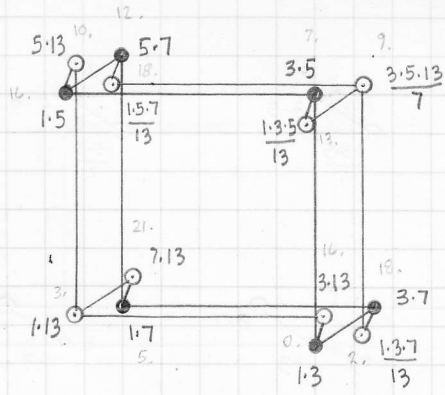


3·5·7 1·5·7 1·3·7 1·3·5
 13 13 13 13

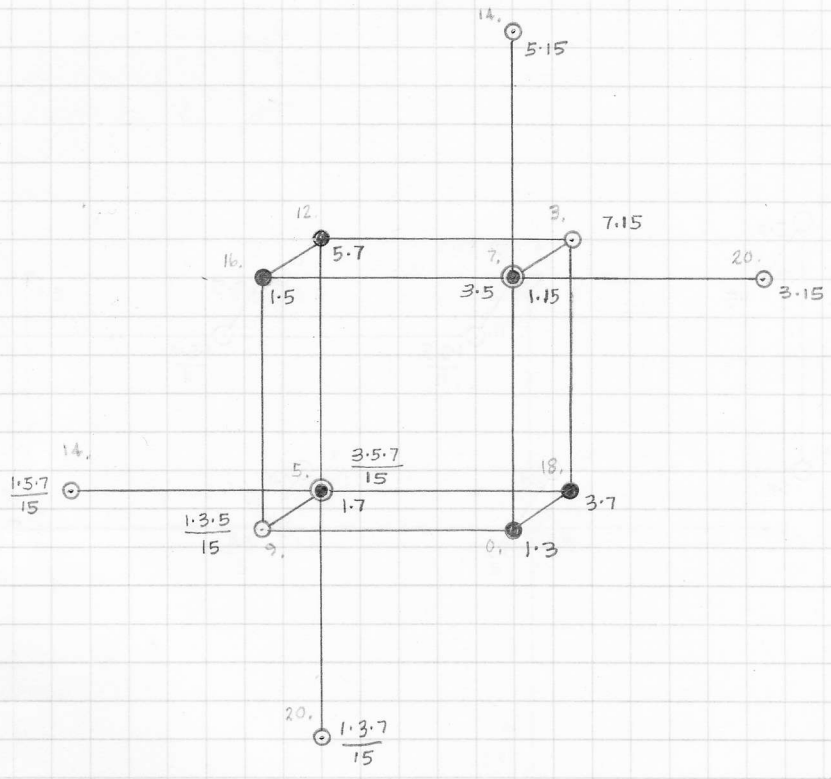
1·13 3·13 5·13 7·13

1 3 5 7 (13)

1 3
 1 5
 1 7
 3 5
 3 7
 5 7

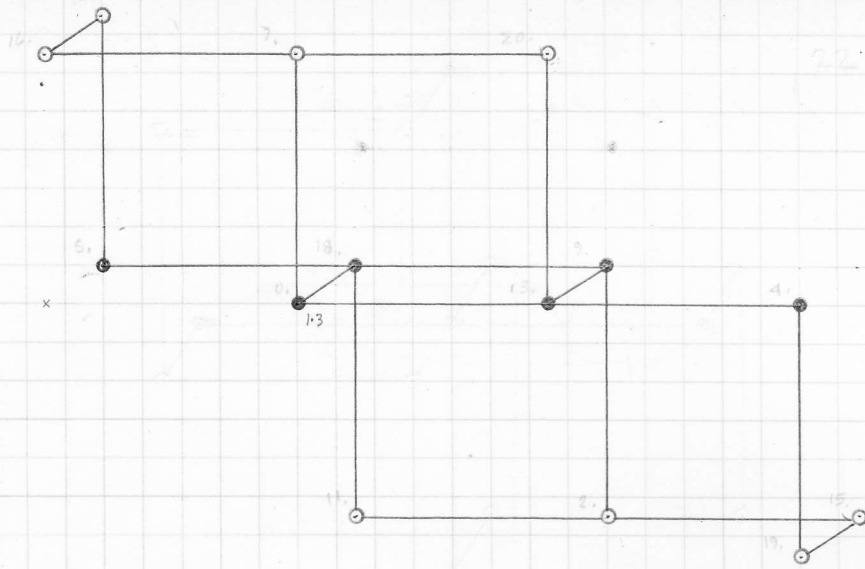


1 3 5 7 (15)



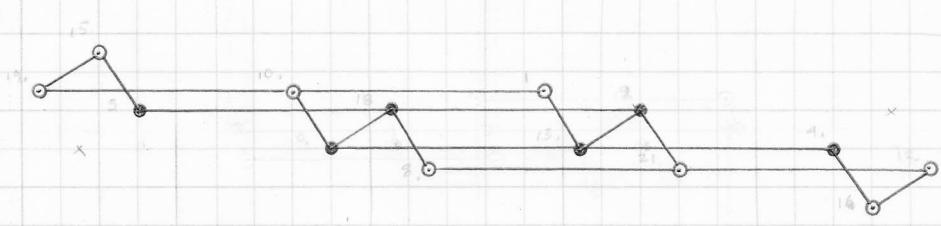
$$\frac{3^2 \cdot 5^2}{7} = \frac{225}{224}$$

1 3 7 9 (5)



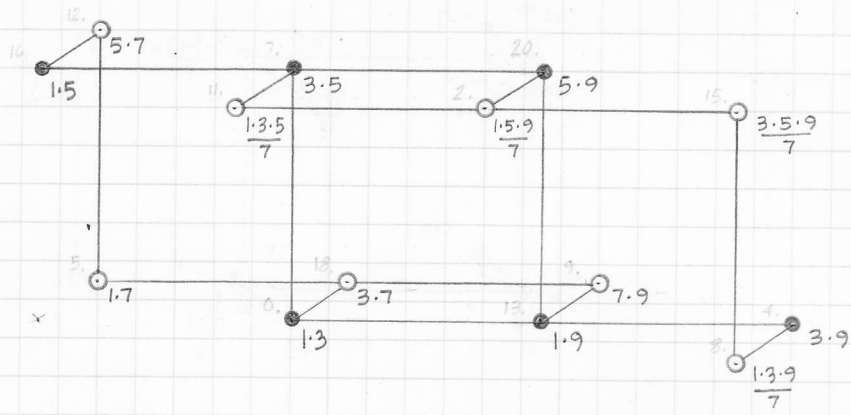
22 Articulate

1 3 7 9 (11)



22 Articulate

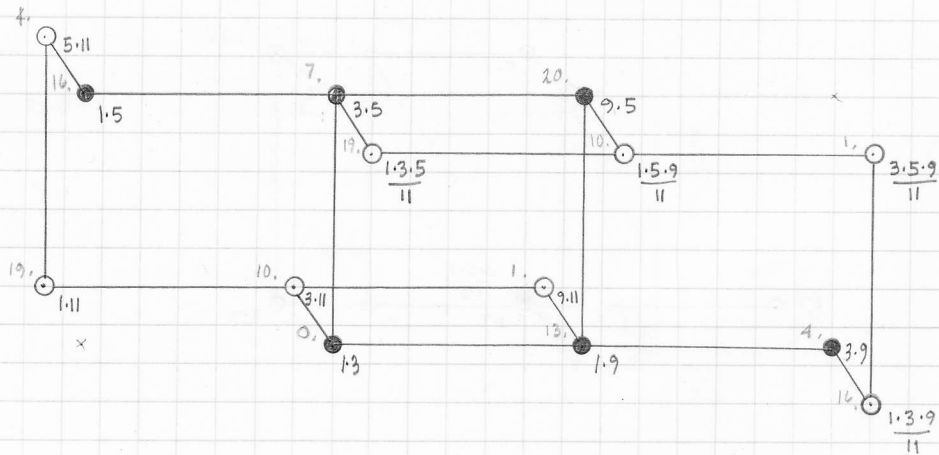
1 3 5 9 (7)



Symmetrical development
 duplicates 10 & 21

22 articulate

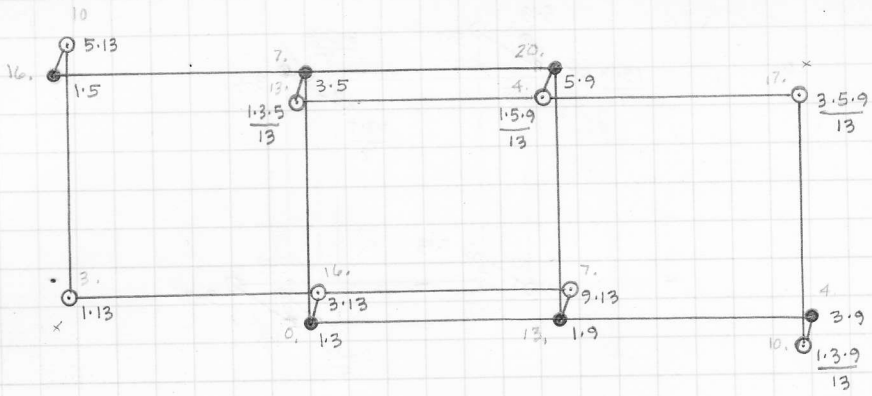
1 3 5 9 (11)



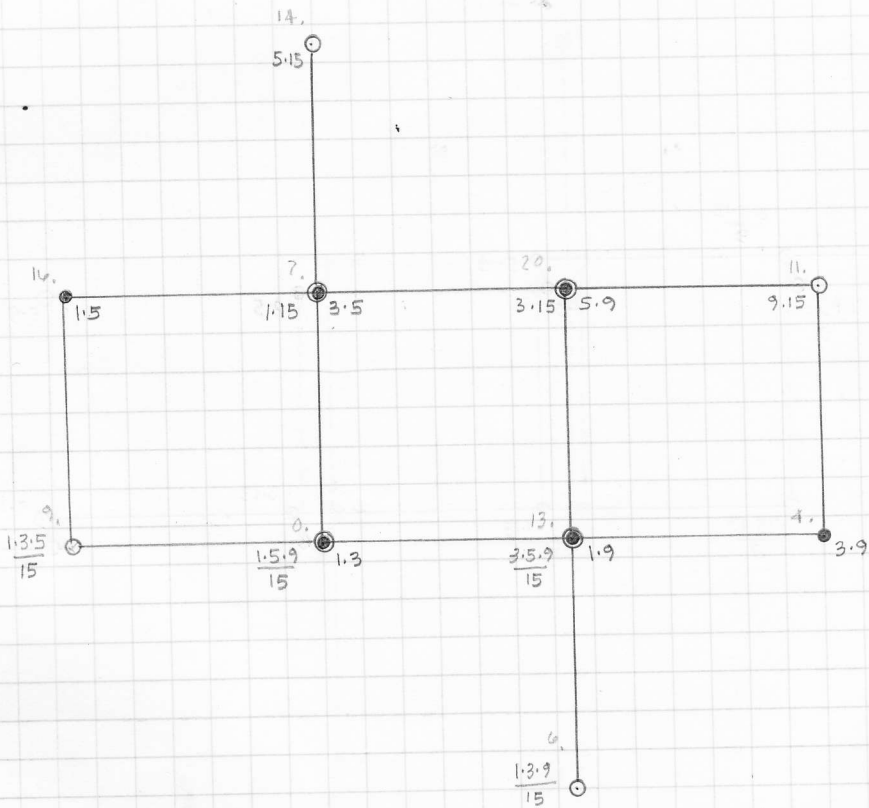
$$\frac{5 \cdot 11}{3^3} = \frac{55}{54}$$

$$\frac{11^2}{3 \cdot 5} = \frac{121}{15}$$

1 3 5 9 (13)



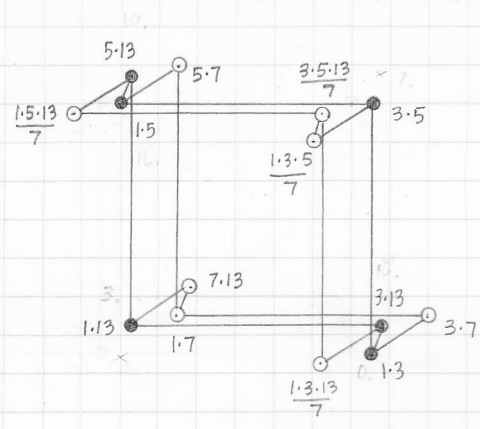
1 3 5 9 (15)



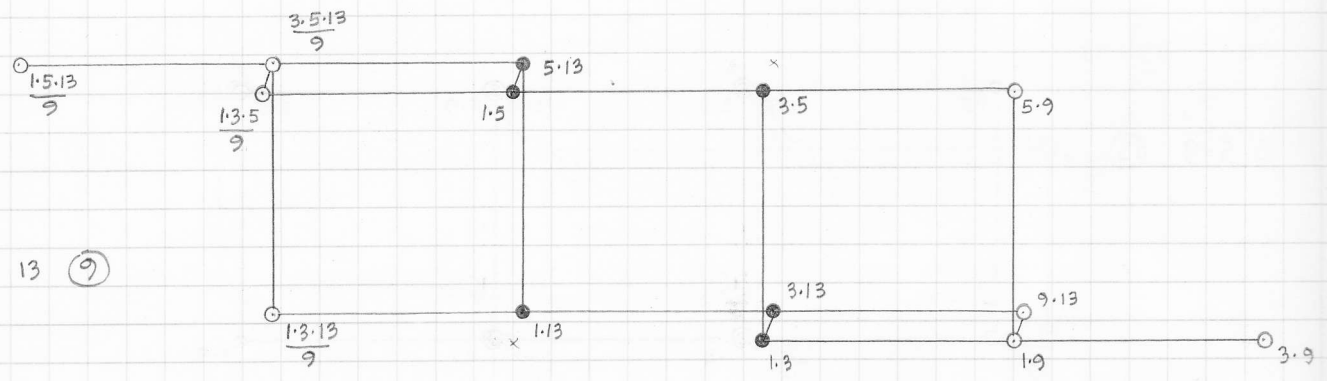
22 articulate

22 fusion in \mathbb{Z}_7
 $\frac{39}{40}$

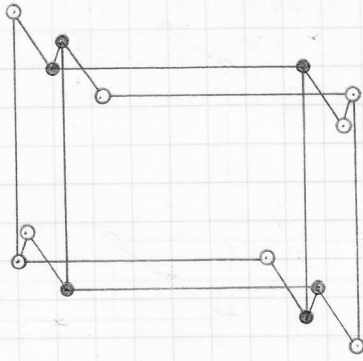
1 3 5 13 (7)



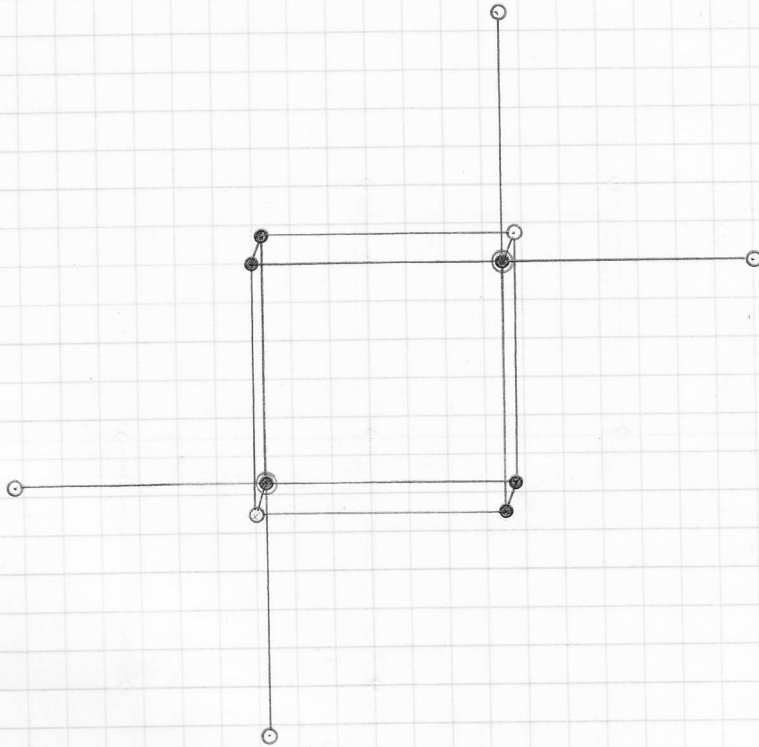
1 3 5 13 (9)



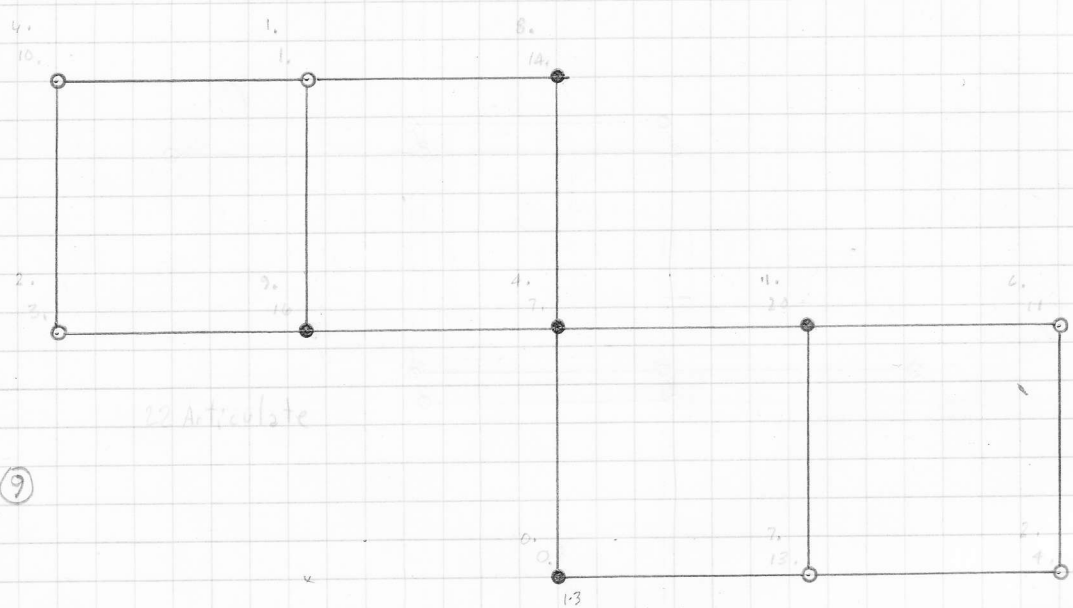
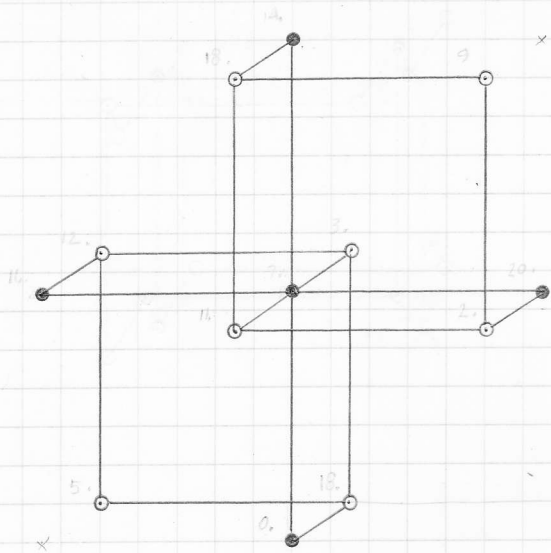
1 3 5 13 (11)



1 3 5 13 (15)

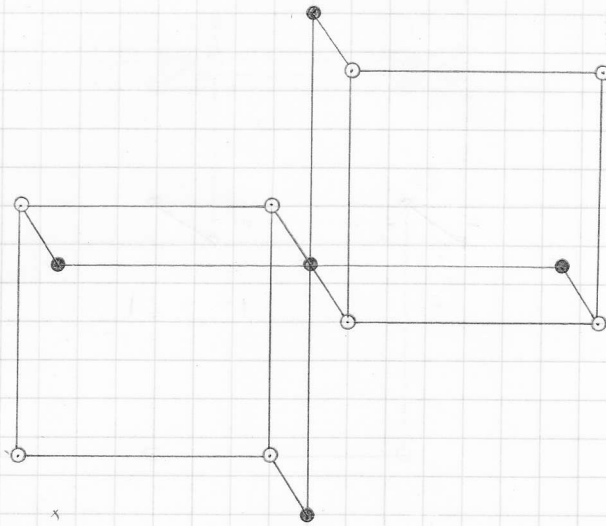


1 3 5 15 (7)



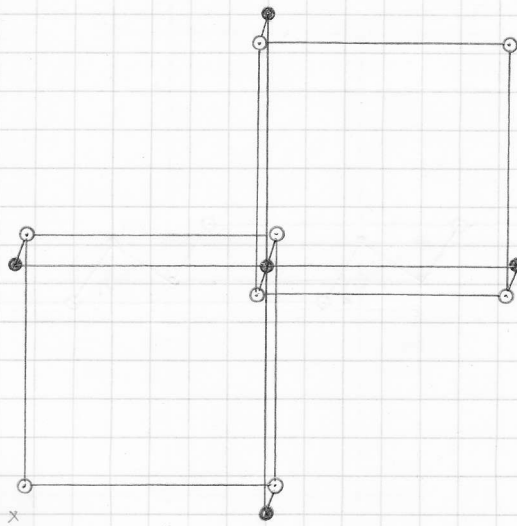
1 3 5 15 (9)

1 3 5 15 (11)



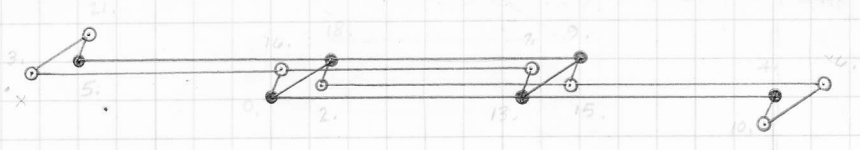
$\frac{11^2}{3 \cdot 5}$

1 3 5 15 (13)

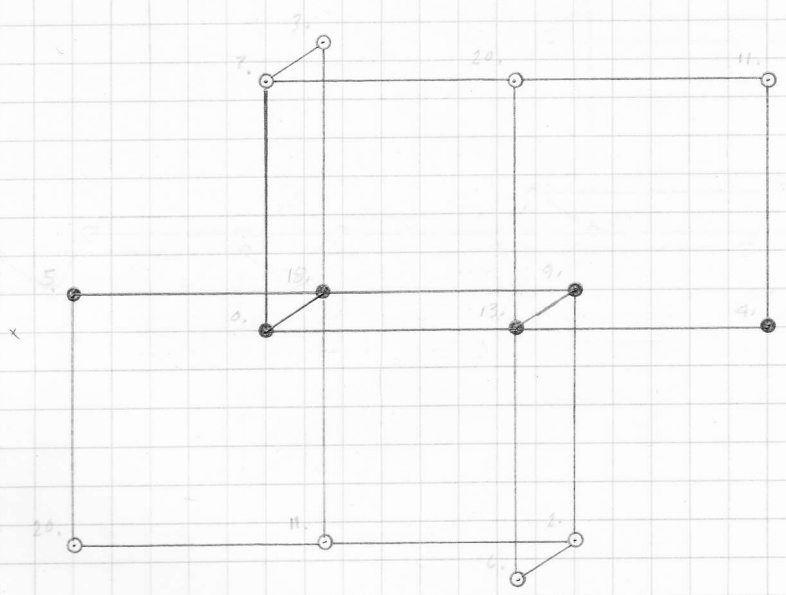


$\frac{5}{3 \cdot 13}$

1 3 7 9 (13)

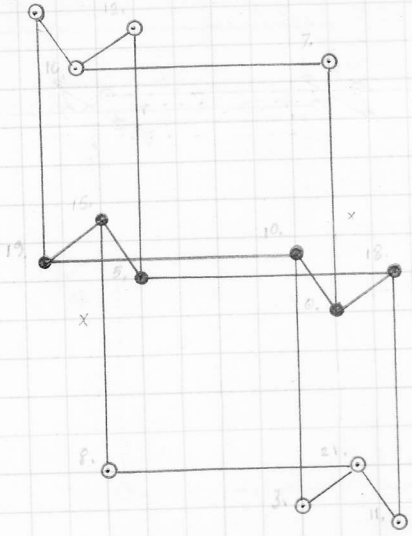


1 3 7 9 (15)

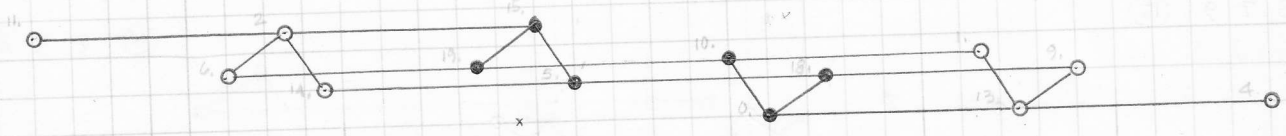


$$\frac{3^2 \cdot 5^2}{7} = \frac{225}{224}$$

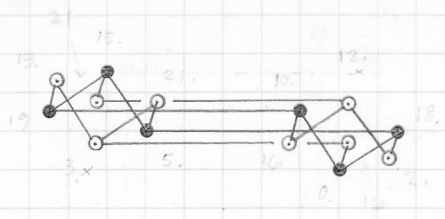
1 3 7 11 (5)



1 3 7 11 (9)

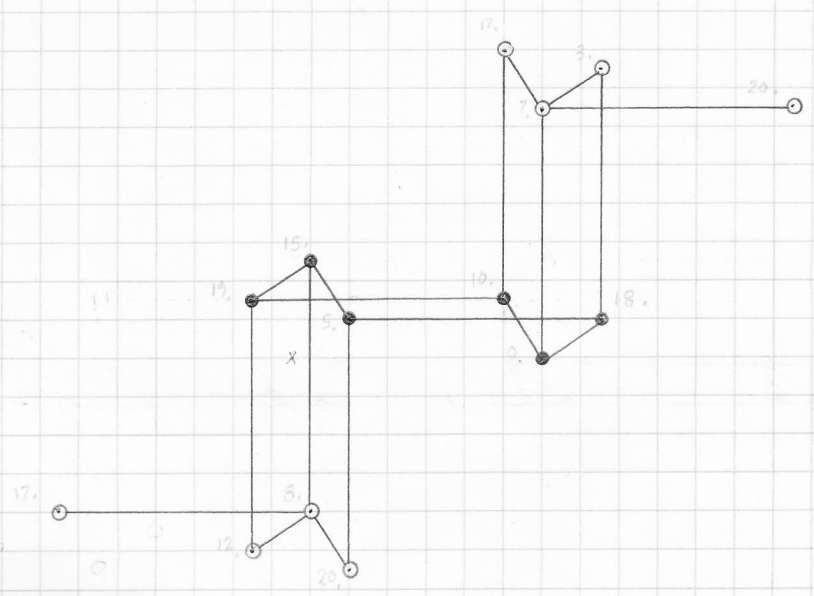


1 3 7 11 (13)



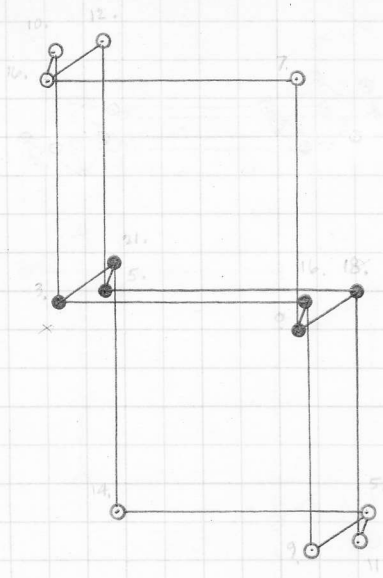
$$\frac{13^2}{11} = \frac{169}{176}$$

1 3 7 11 (15)



$$\frac{3 \cdot 5^2}{7} = \frac{225}{224}$$

1 3 7 13 (5)



1 3 7 13 (9)

22 Articulate

