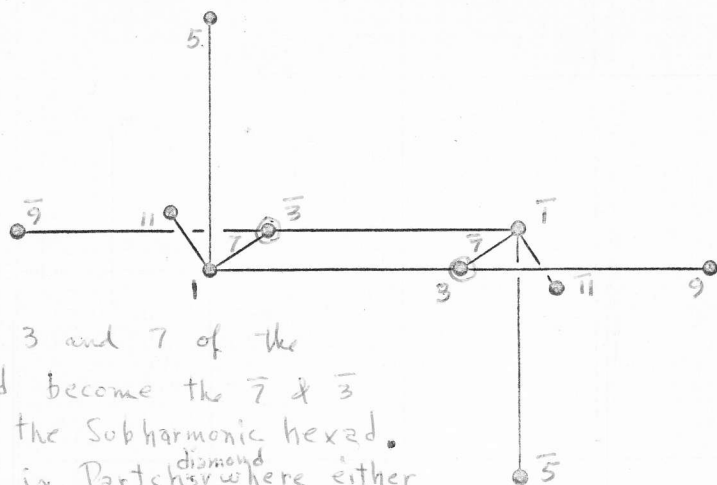


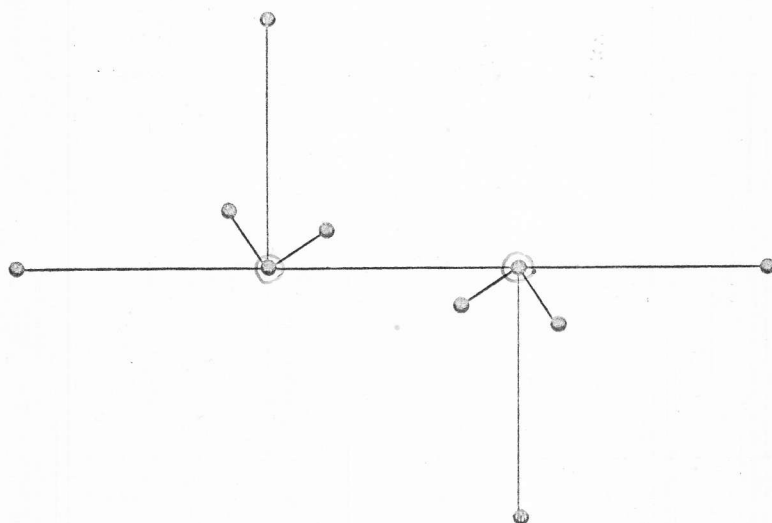
Jan 7, 1967

3, 7

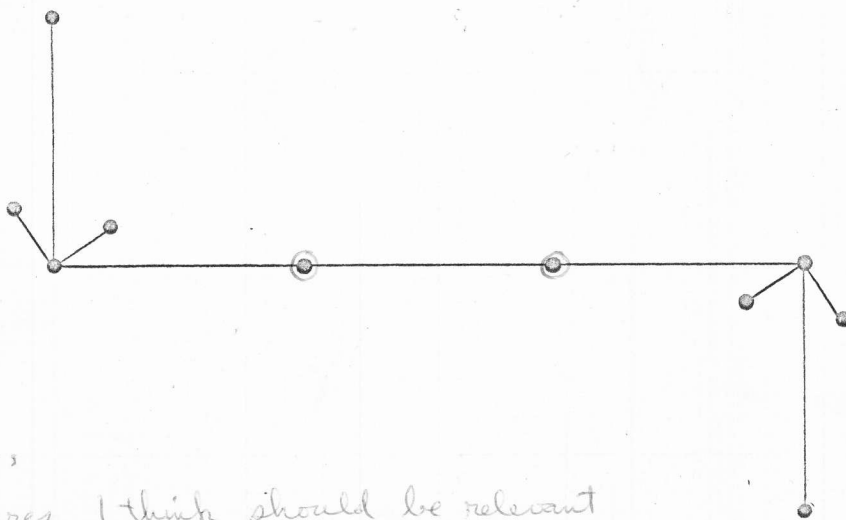


i.e. the 3 and 7 of the Harmonic hexad become the  $\bar{7}$  &  $\bar{3}$  respectively of the Subharmonic hexad. This is found in Partch's <sup>diamond</sup> where either one of the 2-common-tones is his  $\frac{1}{7}$ .

3, 1



3, 9



Dear John,

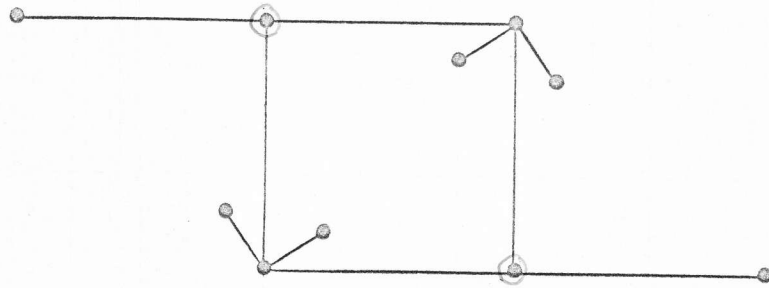
These figures I think should be relevant to a choice of related pitch-table primes.

Craden gives another concert on the 18th of Jan.

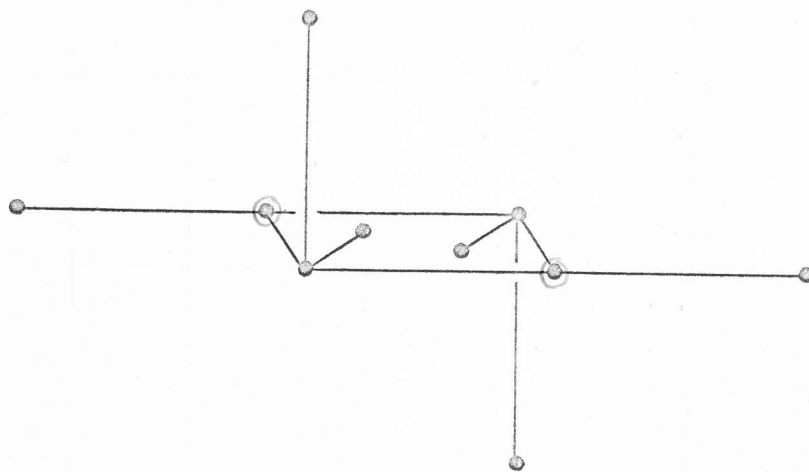
Saw Emil's Zylophone last night returned to my Septimal duodecime - wild!

More later, Erv

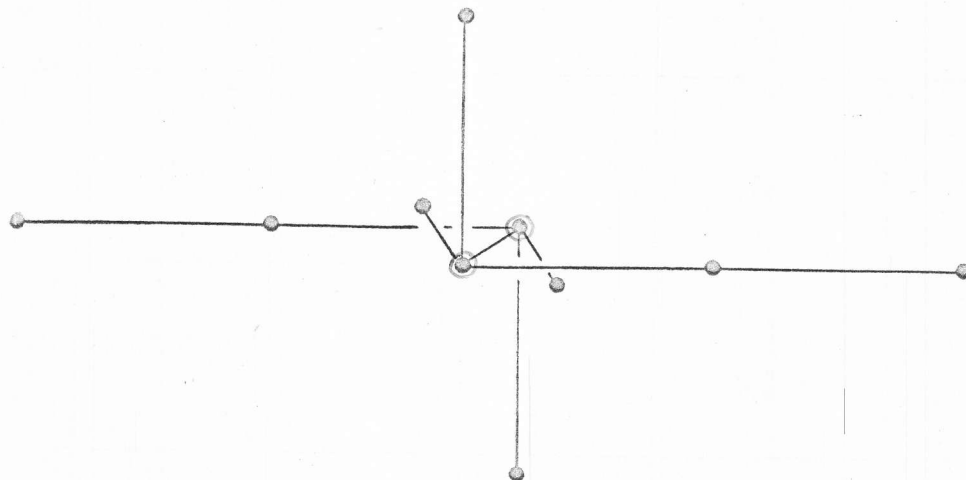
3, 5



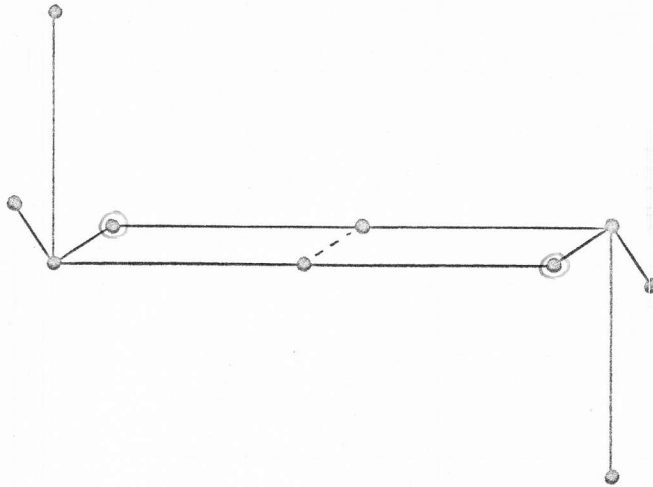
3, 11



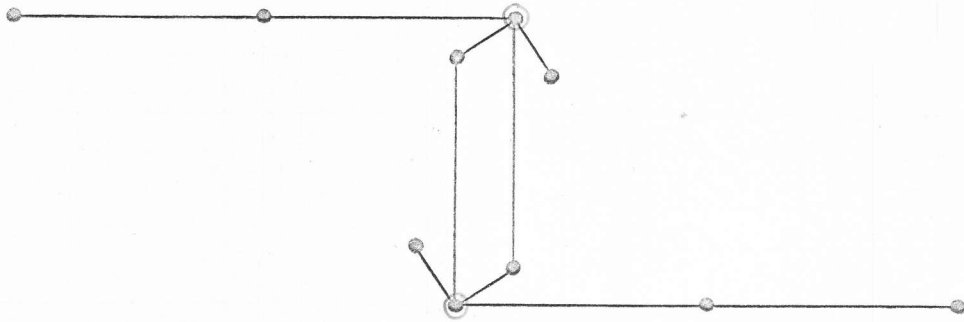
7, 1



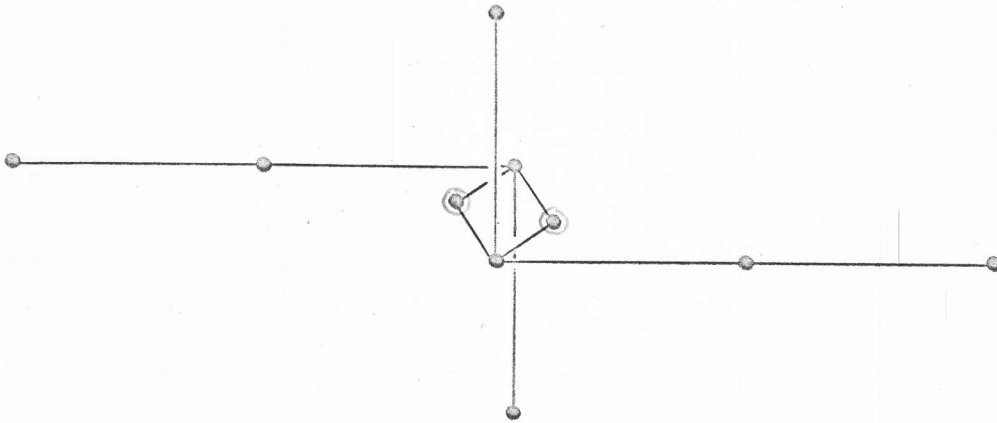
7, 9



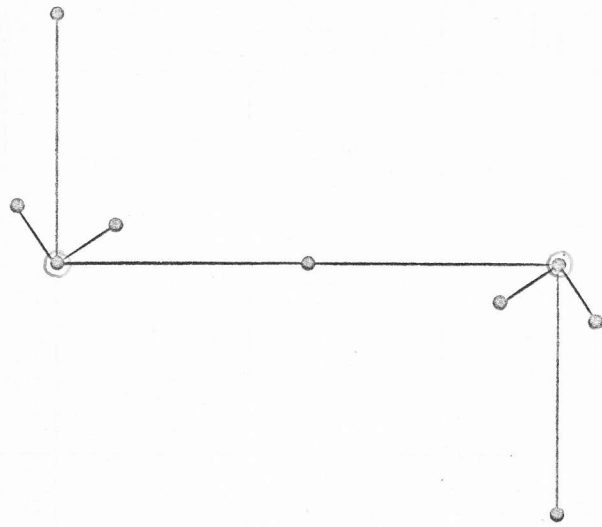
7, 5



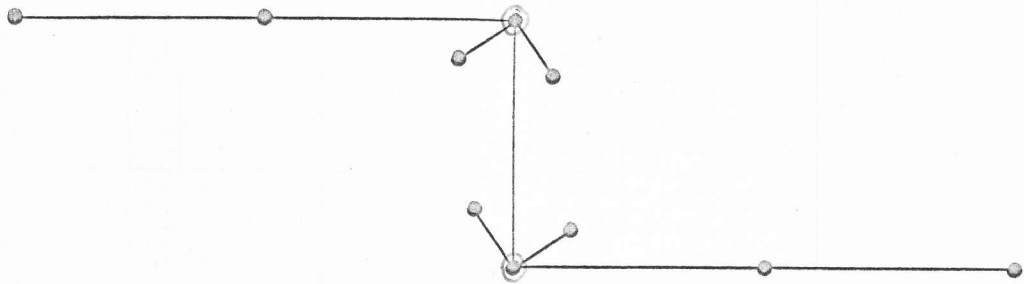
7, 11



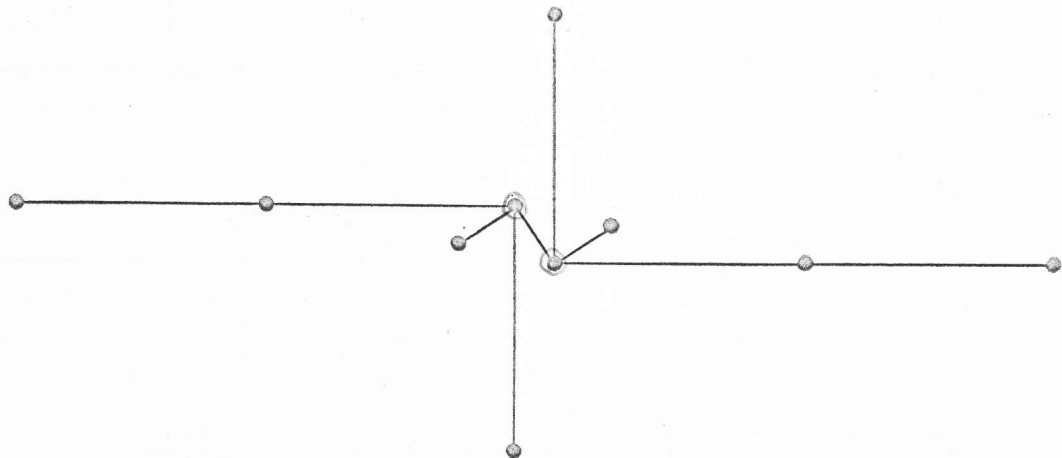
1, 9



1, 5

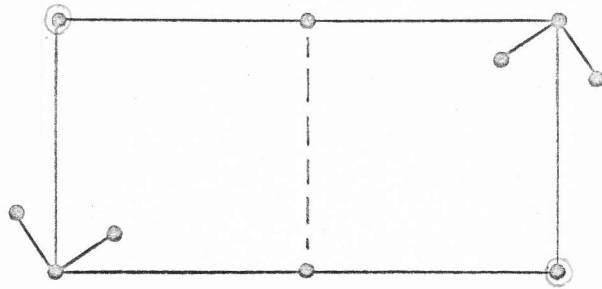


1, 11

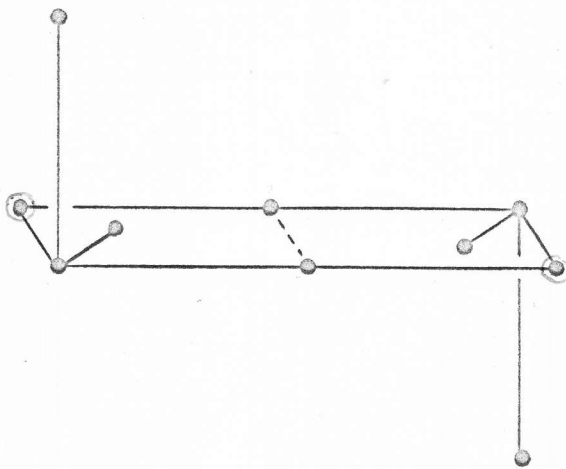




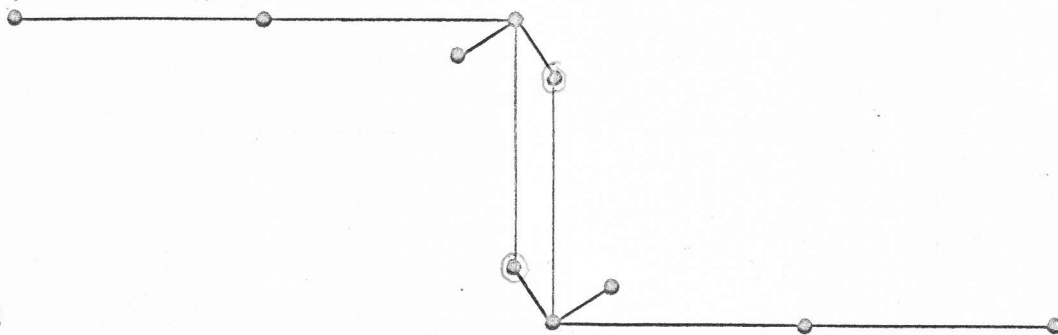
9, 5



9, 11



5, 11



This cryptic table describes the 120 modulations or the 120 face-flankings

Median Hexony →	flanking Hexony								
	<u>1 3 5 7</u>	<u>9</u>	<u>11</u>	<u>1 3 9 11</u>	<u>5</u>	<u>7</u>	<u>3 5 7 9</u>	<u>1</u>	<u>11</u>
Common facets	1 3 5	1 3 5 9	1 3 5 11	1 3 9	1 3 5 9	1 3 7 9	3 5 7	1 3 5 7	3 5 7 11
	1 3 7	1 3 7 9	1 3 7 11	1 3 11	1 3 5 11	1 3 7 11	3 5 9	1 3 5 9	3 5 9 11
	1 5 7	1 5 7 9	1 5 7 11	1 9 11	1 5 9 11	1 7 9 11	3 7 9	1 3 7 9	3 7 9 11
	3 5 7	3 5 7 9	3 5 7 11	3 9 11	3 5 9 11	3 7 9 11	5 7 9	1 5 7 9	5 7 9 11

<u>1 3 5 9</u>	<u>7</u>	<u>11</u>	<u>1 5 7 9</u>	<u>3</u>	<u>11</u>	<u>3 5 7 11</u>	<u>1</u>	<u>9</u>
1 3 5	1 3 5 7	1 3 5 11	1 5 7	1 3 5 7	1 5 7 11	3 5 7	1 3 5 7	3 5 7 9
1 3 9	1 3 7 9	1 3 9 11	1 5 9	1 3 5 9	1 5 9 11	3 5 11	1 3 5 11	3 5 9 11
1 5 9	1 5 7 9	1 5 9 11	1 7 9	1 3 7 9	1 7 9 11	3 7 11	1 3 7 11	3 7 9 11
3 5 9	3 5 7 9	3 5 9 11	5 7 9	3 5 7 9	5 7 9 11	5 7 11	1 5 7 11	5 7 9 11

<u>1 3 5 11</u>	<u>7</u>	<u>9</u>	<u>1 5 7 11</u>	<u>3</u>	<u>9</u>	<u>3 5 9 11</u>	<u>1</u>	<u>7</u>
1 3 5	1 3 5 7	1 3 5 9	1 5 7	1 3 5 7	1 5 7 9	3 5 9	1 3 5 9	3 5 7 9
1 3 11	1 3 7 11	1 3 9 11	1 5 11	1 3 5 11	1 5 9 11	3 5 11	1 3 5 11	3 5 7 11
1 5 11	1 5 7 11	1 5 9 11	1 7 11	1 3 7 11	1 7 9 11	3 9 11	1 3 9 11	3 7 9 11
3 5 11	3 5 7 11	3 5 9 11	5 7 11	3 5 7 11	5 7 9 11	5 9 11	1 5 9 11	5 7 9 11

<u>1 3 7 9</u>	<u>5</u>	<u>11</u>	<u>1 5 9 11</u>	<u>3</u>	<u>7</u>	<u>3 7 9 11</u>	<u>1</u>	<u>5</u>
1 3 7	1 3 5 7	1 3 7 11	1 5 9	1 3 5 9	1 5 7 9	3 7 9	1 3 7 9	3 5 7 9
1 3 9	1 3 5 9	1 3 9 11	1 5 11	1 3 5 11	1 5 7 11	3 7 11	1 3 7 11	3 5 7 11
1 7 9	1 5 7 9	1 7 9 11	1 9 11	1 3 9 11	1 7 9 11	3 9 11	1 3 9 11	3 5 9 11
3 7 9	3 5 7 9	3 7 9 11	5 9 11	3 5 9 11	5 7 9 11	7 9 11	1 7 9 11	5 7 9 11

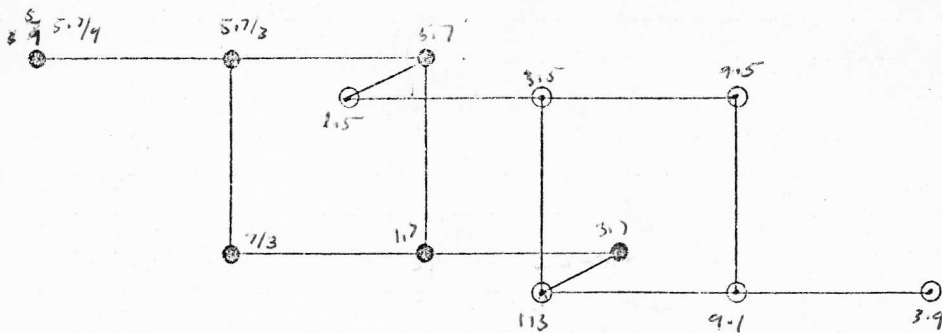
<u>1 3 7 11</u>	<u>5</u>	<u>9</u>	<u>1 7 9 11</u>	<u>3</u>	<u>5</u>	<u>5 7 9 11</u>	<u>1</u>	<u>3</u>
1 3 7	1 3 5 7	1 3 7 9	1 7 9	1 3 7 9	1 5 7 9	5 7 9	1 5 7 9	3 5 7 9
1 3 11	1 3 5 11	1 3 9 11	1 7 11	1 3 7 11	1 5 7 11	5 7 11	1 5 7 11	3 5 7 11
1 7 11	1 5 7 11	1 7 9 11	1 9 11	1 3 9 11	1 5 9 11	5 9 11	1 5 9 11	3 5 9 11
3 7 11	3 5 7 11	3 7 9 11	7 9 11	3 7 9 11	5 7 9 11	7 9 11	1 7 9 11	3 7 9 11

1357

9

135

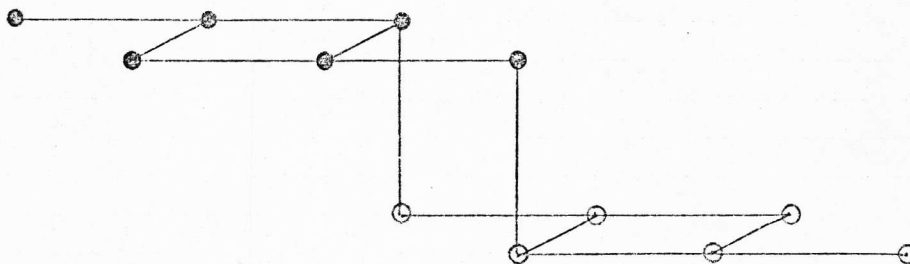
From First



1359

$$\frac{0}{\bullet} = \frac{9}{7}$$

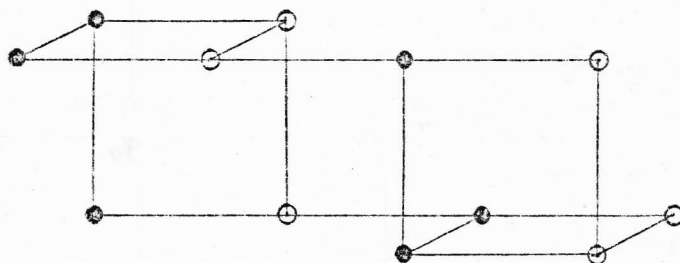
137



1379

$$\frac{0}{\bullet} = \frac{9}{5}$$

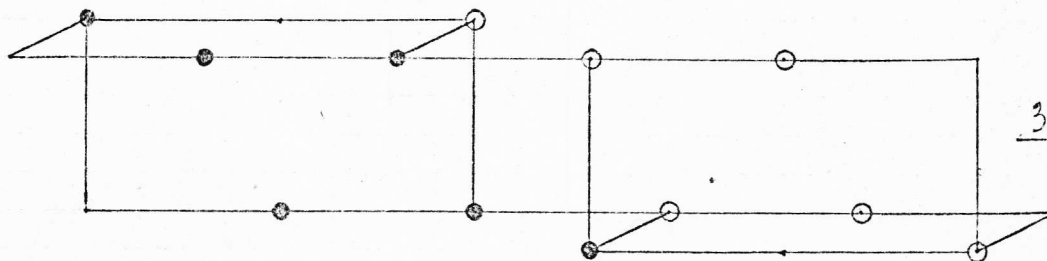
157



1579

$$\frac{0}{\bullet} = \frac{9}{3}$$

357



3579

$$\frac{0}{\bullet} = \frac{9}{1}$$

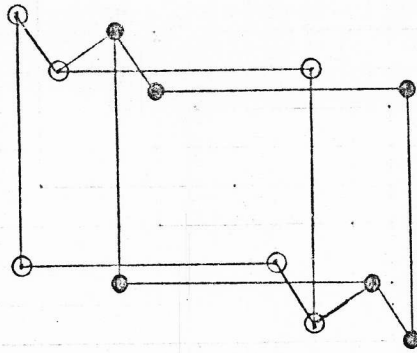
Oct 13, 1967

To John Chalmers with my compliments,  
Erw Wilson

1 3 5 7

11

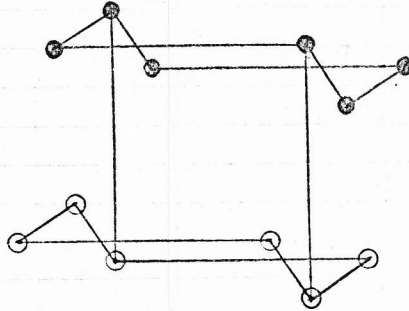
1 3 5



1 3 5 11

$$\frac{0}{\bullet} = \frac{11}{7}$$

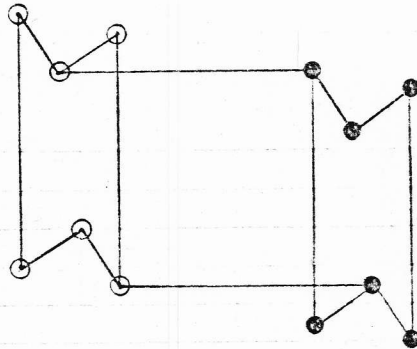
1 3 7



1 3 7 11

$$\frac{0}{\bullet} = \frac{11}{5}$$

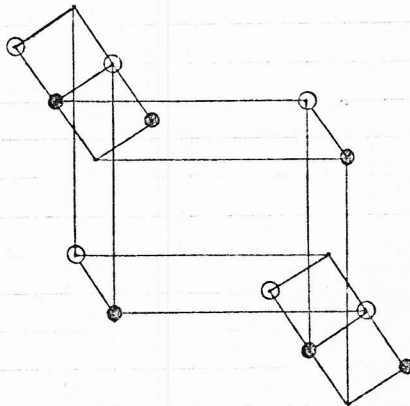
1 5 7



1 5 7 11

$$\frac{0}{\bullet} = \frac{11}{3}$$

3 5 7



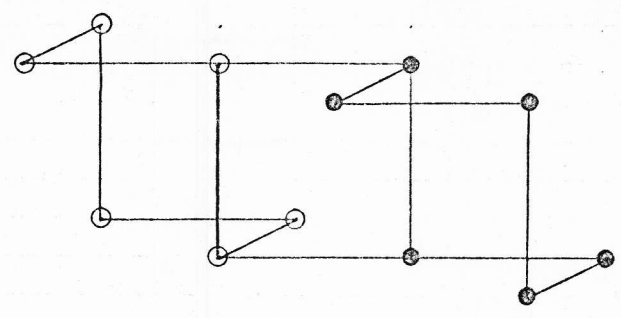
3 5 7 11

$$\frac{0}{\bullet} = \frac{11}{1}$$

1 3 5 9

7

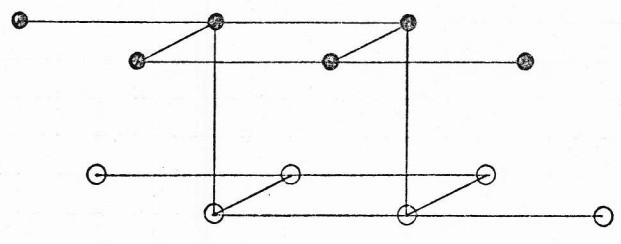
1 3 5



1 3 5 7

$$\frac{0}{6} = \frac{7}{9}$$

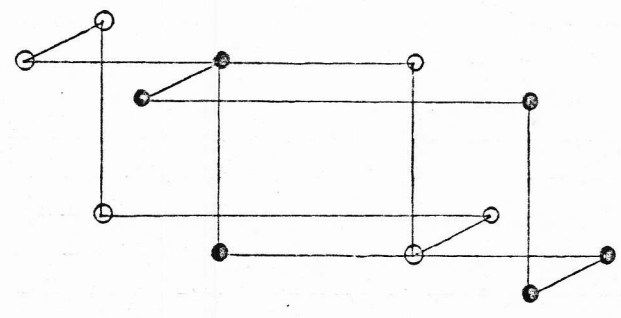
1 3 9



1 3 7 9

$$\frac{0}{6} = \frac{7}{5}$$

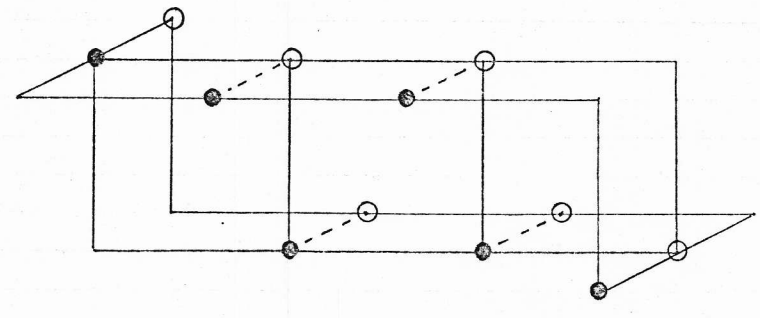
1 5 9



1 5 7 9

$$\frac{0}{6} = \frac{7}{3}$$

3 5 9



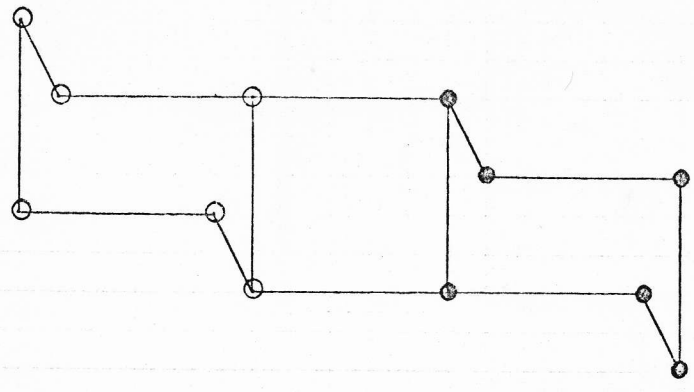
3 5 7 9

$$\frac{0}{6} = \frac{7}{1}$$

1359

11

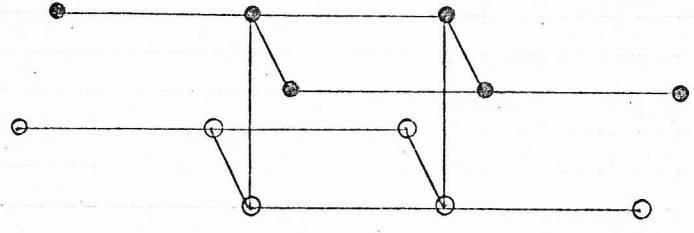
135



13511

$$\frac{0}{\bullet} = \frac{11}{9}$$

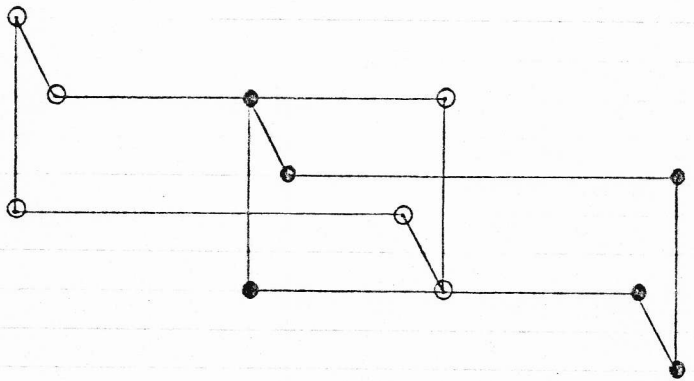
139



13911

$$\frac{0}{\bullet} = \frac{11}{5}$$

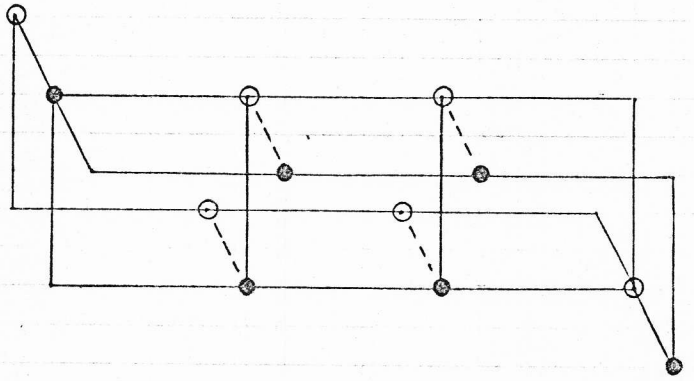
159



15911

$$\frac{0}{\bullet} = \frac{11}{3}$$

359



35911

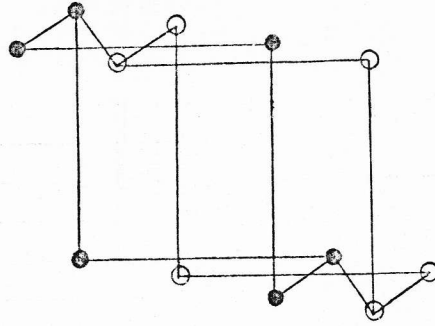
$$\frac{0}{\bullet} = \frac{11}{1}$$

1 3 5 11

7

1 3 5

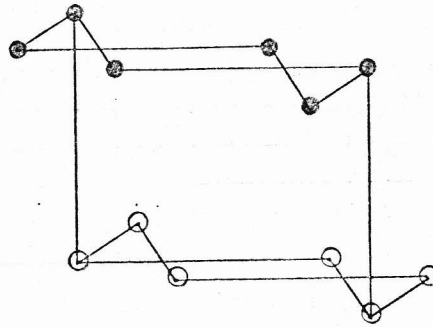
1 3 5 7



$$\frac{0}{\bullet} = \frac{7}{11}$$

1 3 11

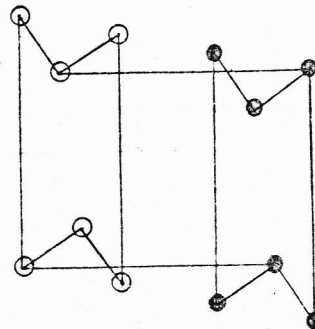
1 3 7 11



$$\frac{0}{\bullet} = \frac{7}{5}$$

1 5 11

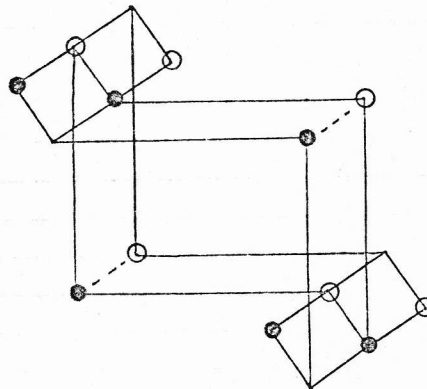
1 5 7 11



$$\frac{0}{\bullet} = \frac{7}{3}$$

3 5 11

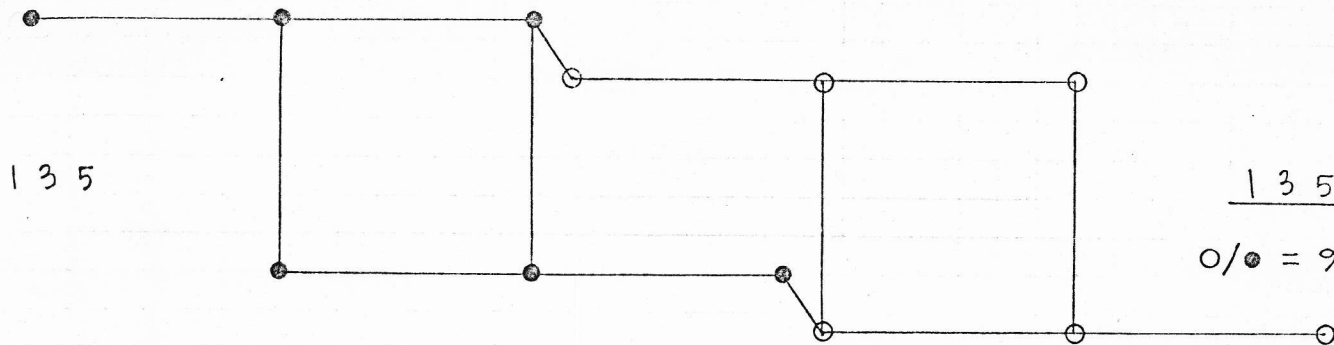
3 5 7 11



$$\frac{0}{\bullet} = \frac{7}{1}$$

1 3 5 11

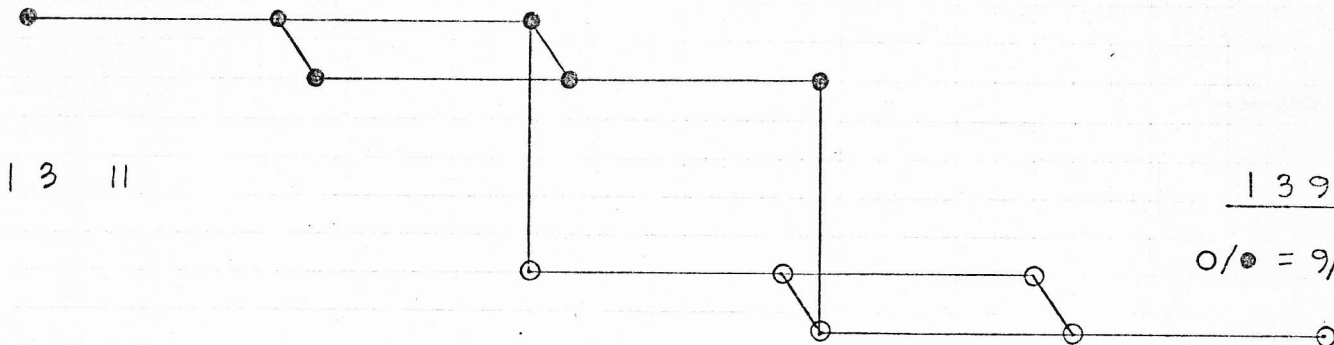
9



1 3 5

1 3 5 9

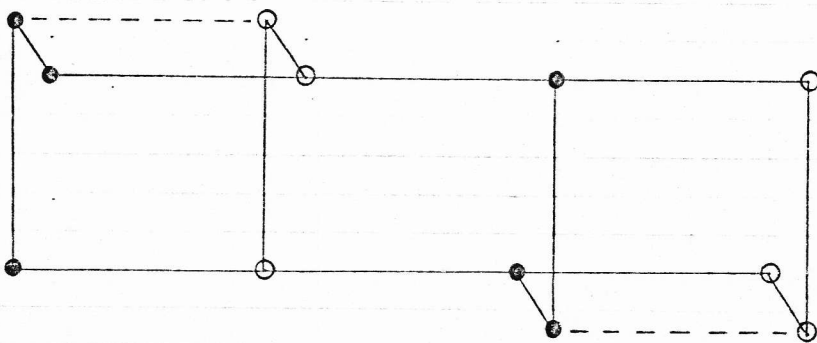
0/• = 9/11



1 3 11

1 3 9 11

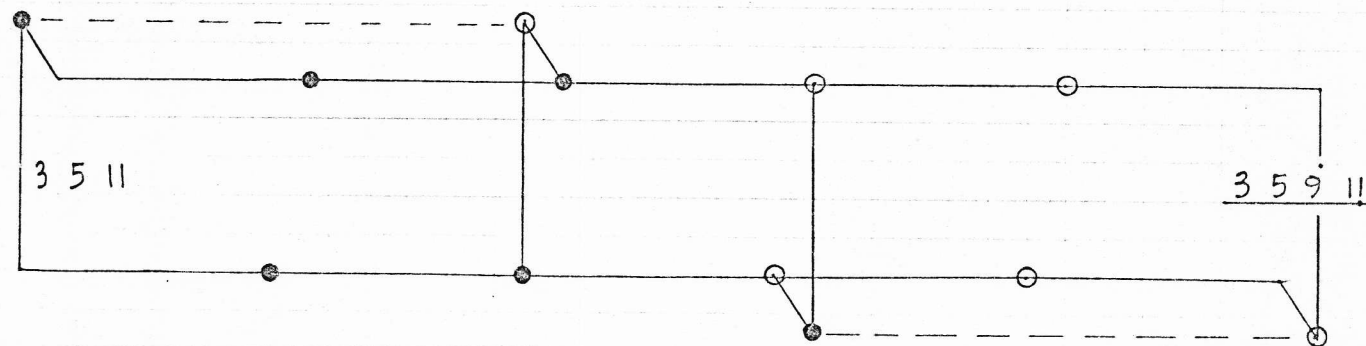
0/• = 9/5



1 5 11

1 5 9 11

0/• = 9/3



3 5 11

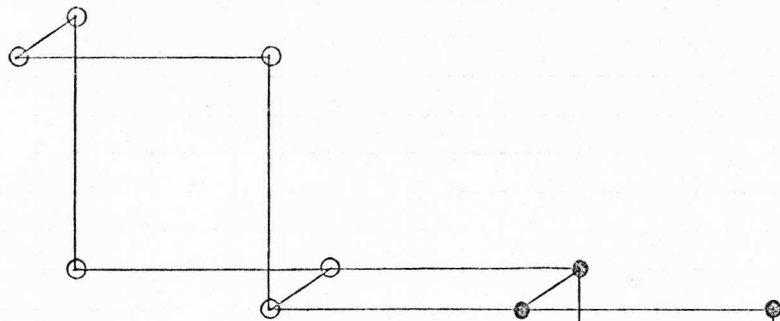
3 5 9 11

0/• = 9/1



1 3 7 9

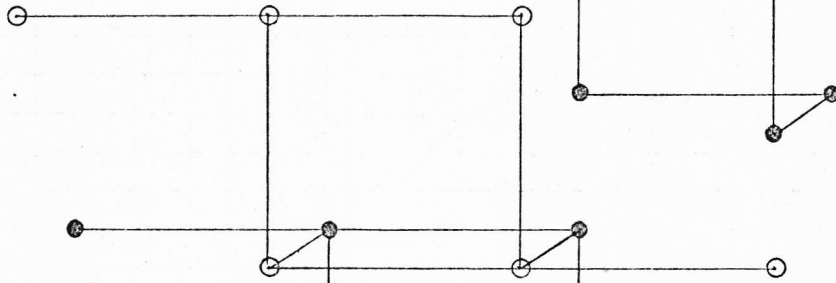
5



1 3 7

1 3 5 7

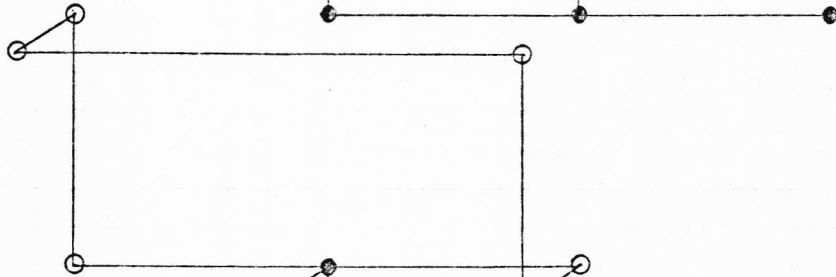
$$\frac{0}{\bullet} = \frac{5}{9}$$



1 3 9

1 3 5 9

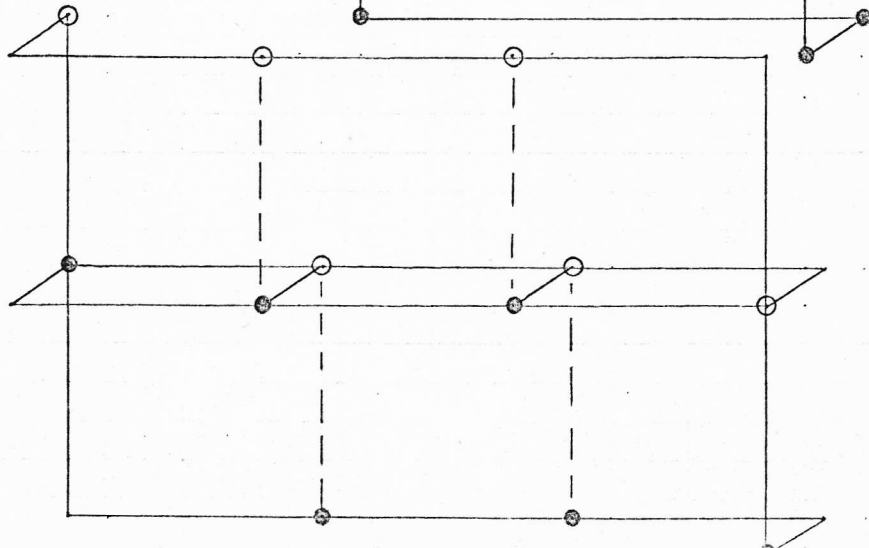
$$\frac{0}{\bullet} = \frac{5}{7}$$



1 7 9

1 5 7 9

$$\frac{0}{\bullet} = \frac{5}{3}$$



3 7 9

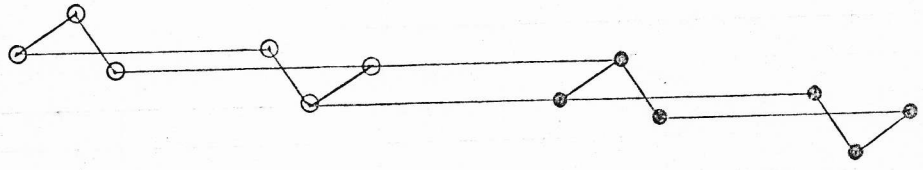
3 5 7 9

$$\frac{0}{\bullet} = \frac{5}{1}$$

1379

11

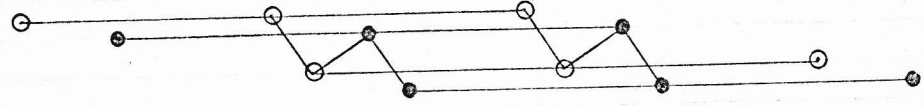
137



13711

$$\frac{0}{\bullet} = \frac{11}{9}$$

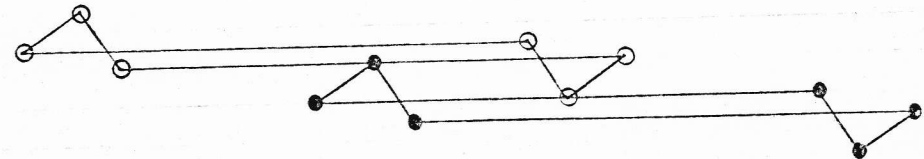
139



13911

$$\frac{0}{\bullet} = \frac{11}{7}$$

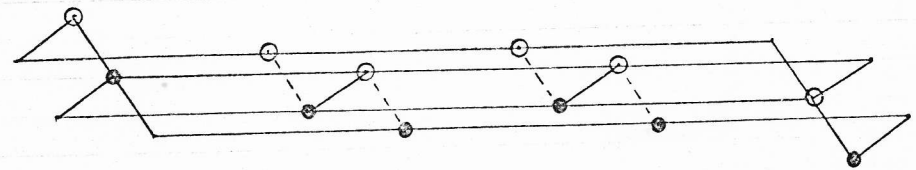
179



17911

$$\frac{0}{\bullet} = \frac{11}{3}$$

379



37911

$$\frac{0}{\bullet} = \frac{11}{1}$$

$$\frac{0}{\bullet} = \frac{5}{1}$$

1 3 7 11

5

1 3 7

1 3 5 7

$$\frac{0}{\bullet} = \frac{5}{11}$$

1 3 11

1 3 5 11

$$\frac{0}{\bullet} = \frac{5}{7}$$

1 7 11

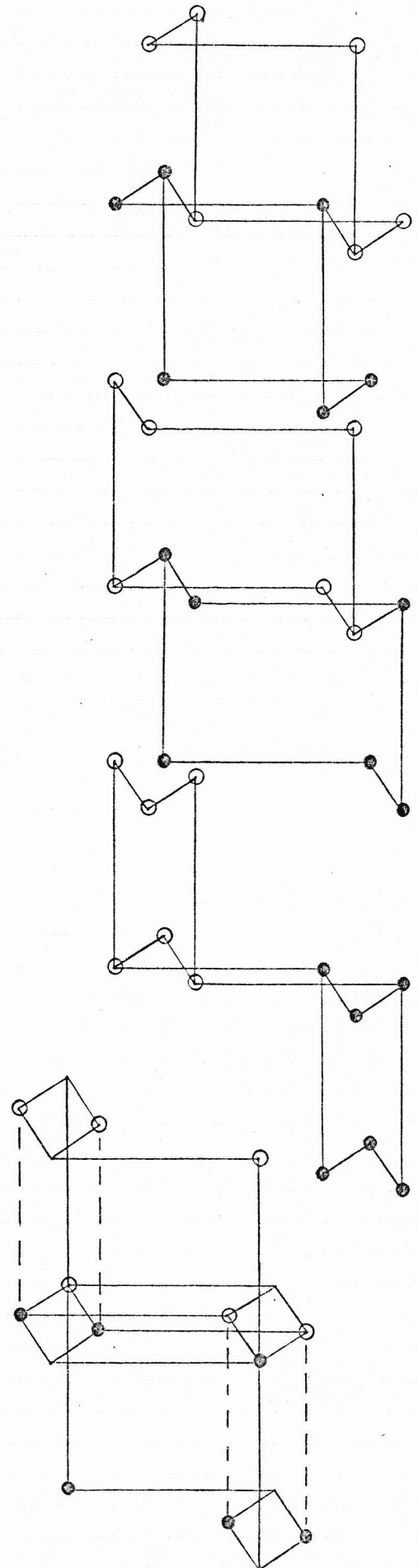
1 5 7 11

$$\frac{0}{\bullet} = \frac{5}{3}$$

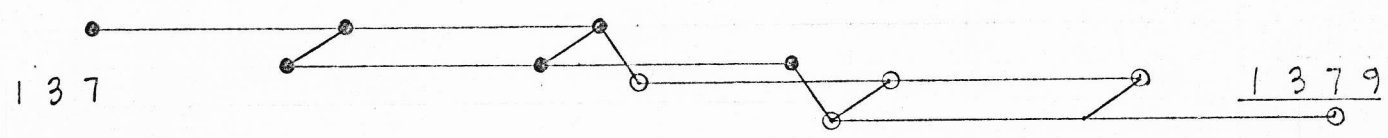
3 7 11

3 5 7 11

$$\frac{0}{\bullet} = \frac{5}{1}$$



1 3 7 11

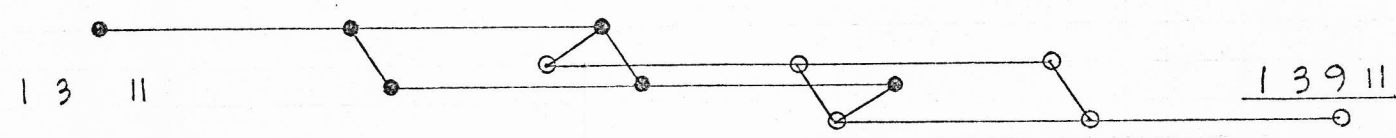


$$\frac{\circ}{\bullet} = \frac{9}{11}$$

7

$\frac{5}{11}$

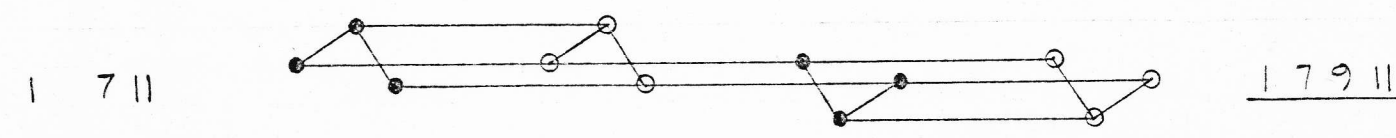
11



$$\frac{\circ}{\bullet} = \frac{9}{7}$$

$\frac{5}{7}$

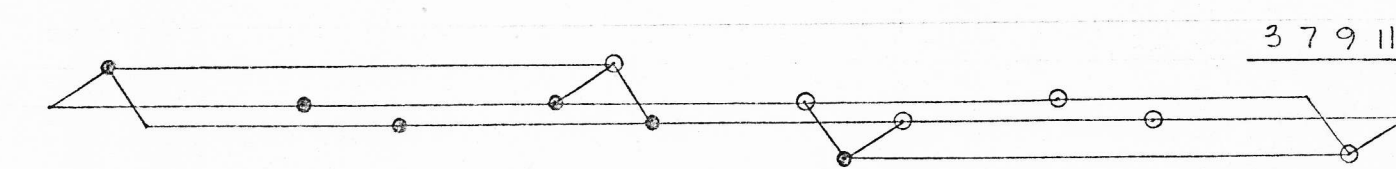
7 11



$$\frac{\circ}{\bullet} = \frac{9}{3}$$

$\frac{5}{3}$

7 11



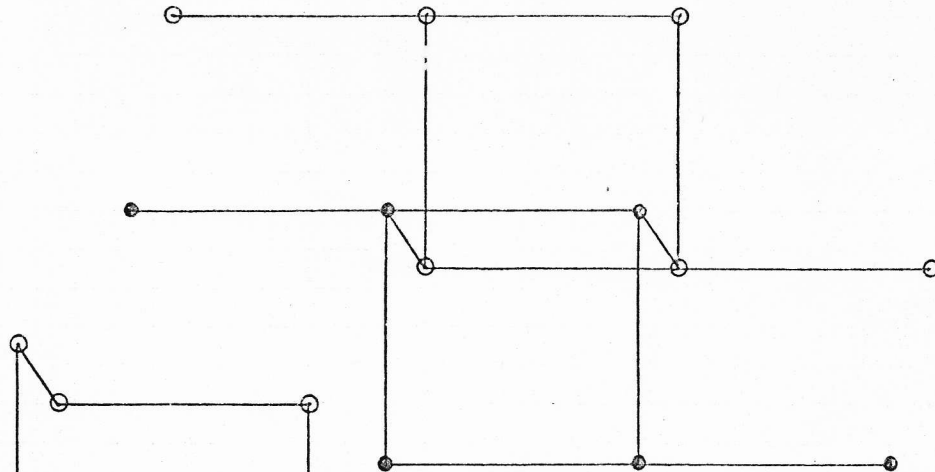
$$\frac{\circ}{\bullet} = \frac{9}{1}$$

$\frac{5}{1}$

13911

5

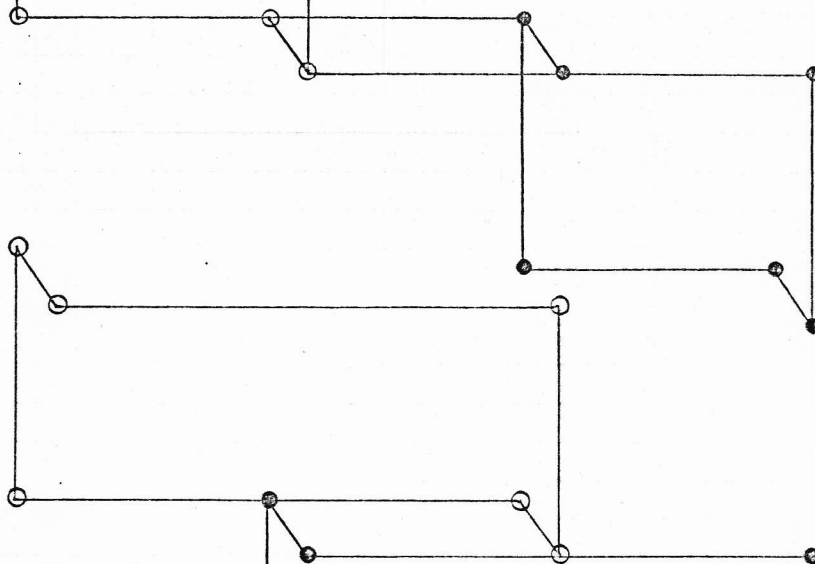
139



1359

$$\frac{0}{\bullet} = \frac{5}{11}$$

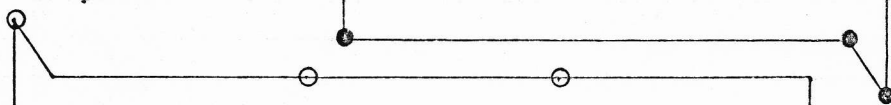
1311



13511

$$\frac{0}{\bullet} = \frac{5}{9}$$

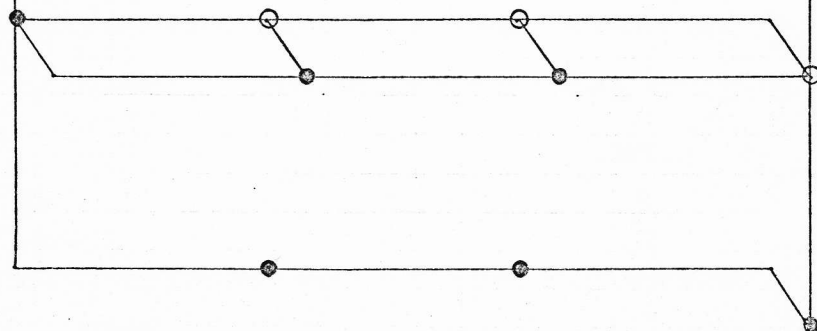
1911



15911

$$\frac{0}{\bullet} = \frac{5}{3}$$

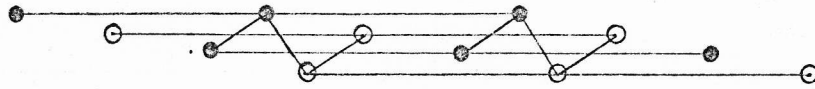
3911



35911

$$\frac{0}{\bullet} = \frac{5}{1}$$

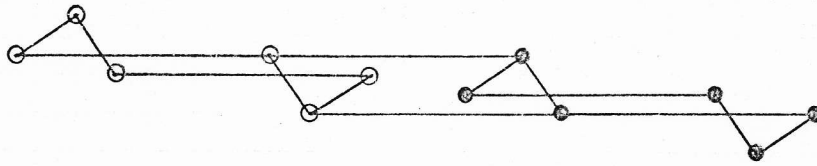
139



1379

$$\frac{0}{\bullet} = \frac{7}{11}$$

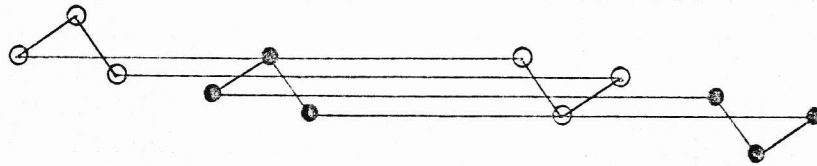
1311



13711

$$\frac{0}{\bullet} = \frac{7}{9}$$

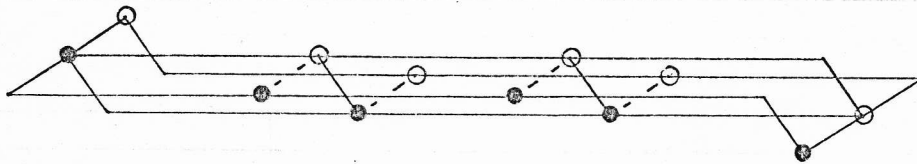
1911



17911

$$\frac{0}{\bullet} = \frac{7}{3}$$

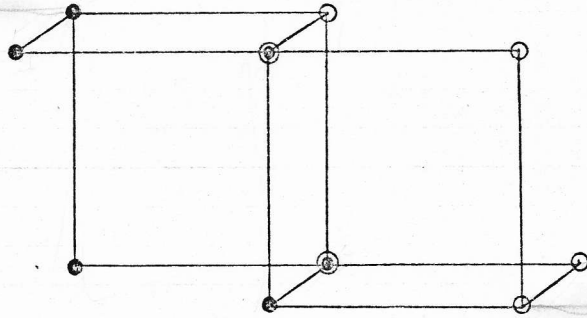
3911



37911

$$\frac{0}{\bullet} = \frac{7}{1}$$

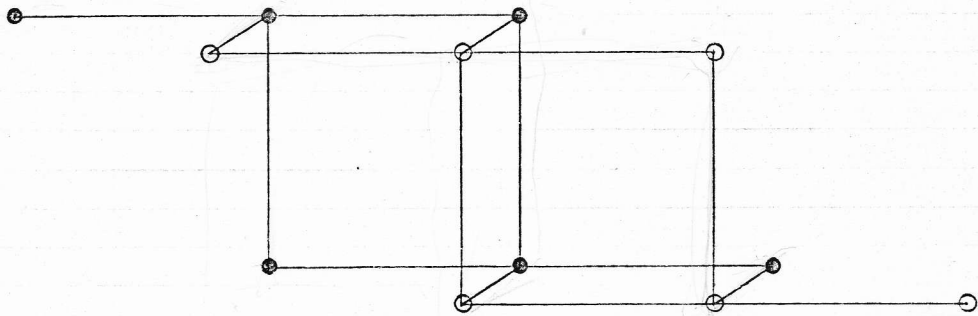
157



1357

$$\frac{0}{\bullet} = \frac{3}{9}$$

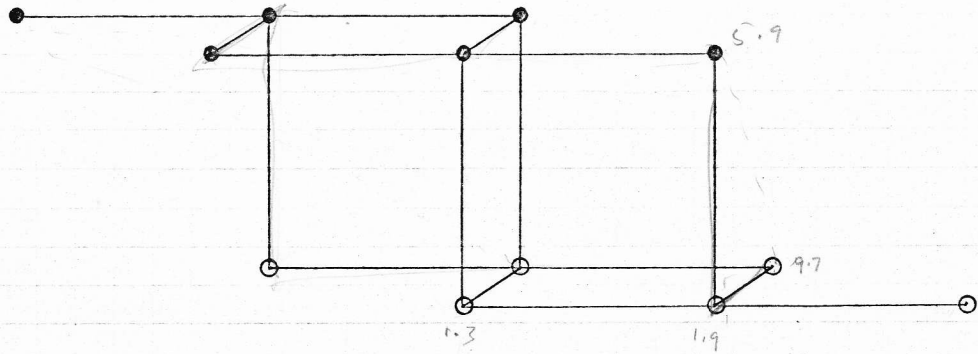
159



1359

$$\frac{0}{\bullet} = \frac{3}{7}$$

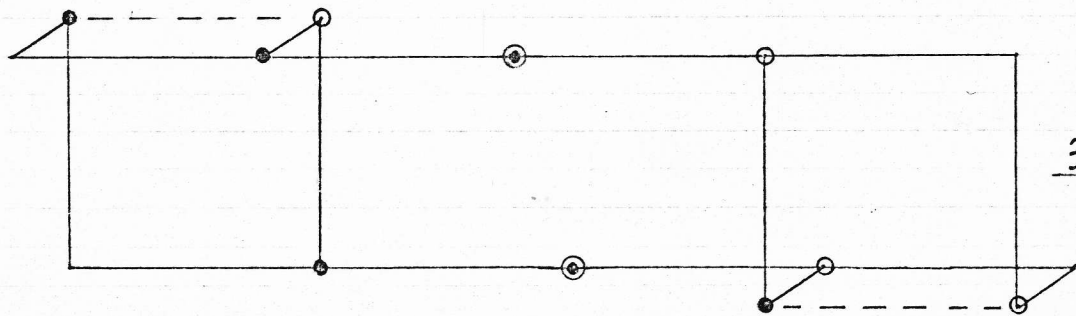
179



1379

$$\frac{0}{\bullet} = \frac{3}{5}$$

579



3579

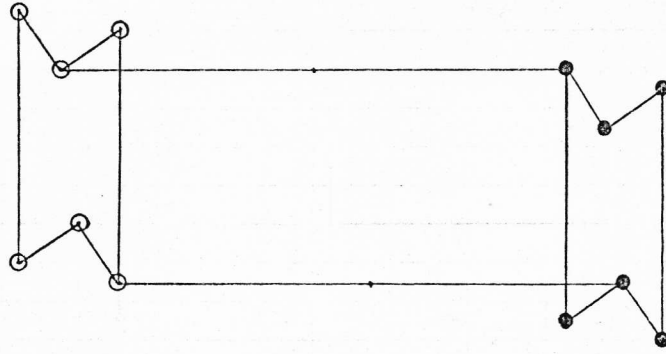
$$\frac{0}{\bullet} = \frac{3}{1}$$



1579

11

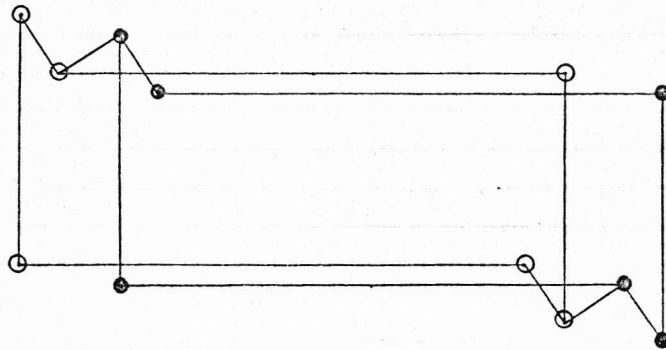
157



15711

$$\frac{0}{\bullet} = \frac{11}{9}$$

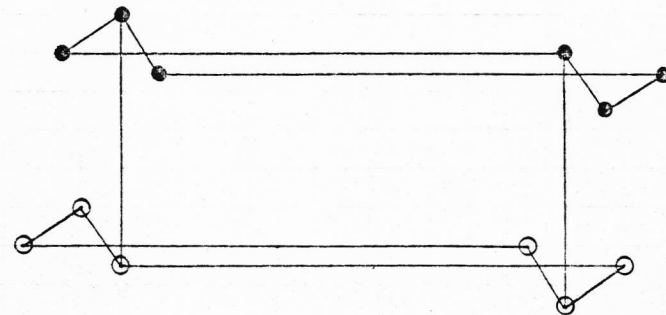
159



15911

$$\frac{0}{\bullet} = \frac{11}{7}$$

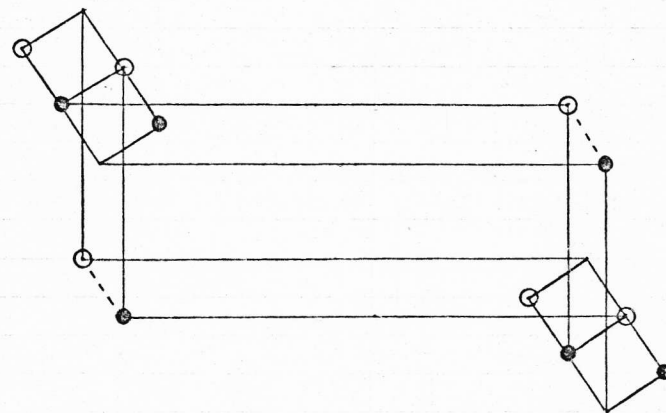
179



17911

$$\frac{0}{\bullet} = \frac{11}{5}$$

579

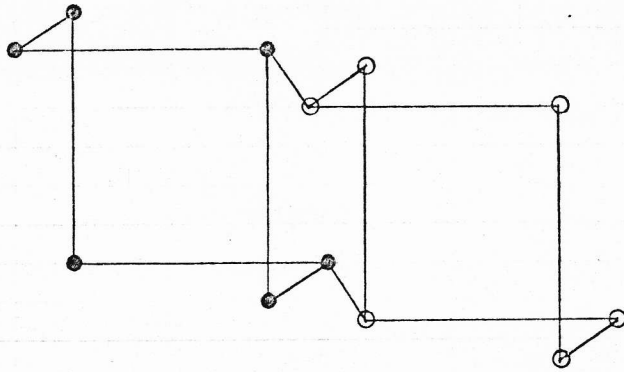


57911

$$\frac{0}{\bullet} = \frac{11}{1}$$



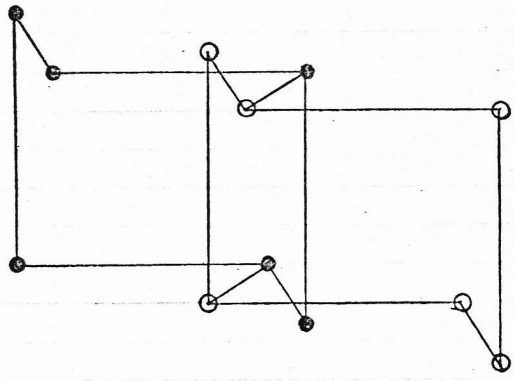
157



1357

$$\frac{0}{\bullet} = \frac{3}{11}$$

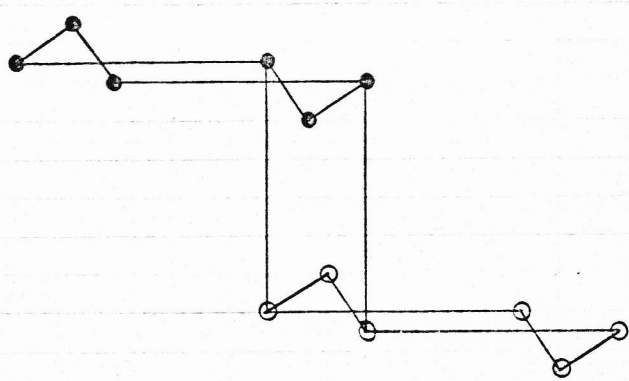
15 11



13511

$$\frac{0}{\bullet} = \frac{3}{7}$$

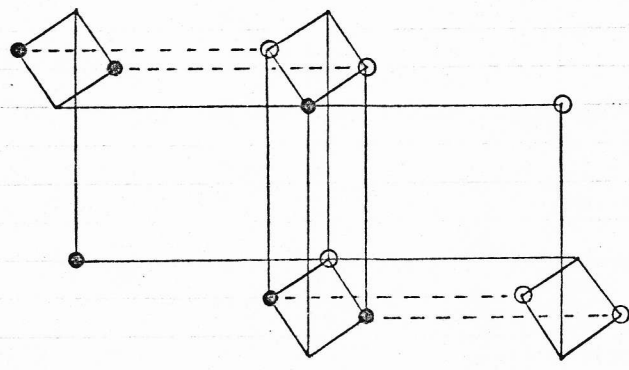
1 7 11



13711

$$\frac{0}{\bullet} = \frac{3}{5}$$

5711



35711

$$\frac{0}{\bullet} = \frac{3}{1}$$

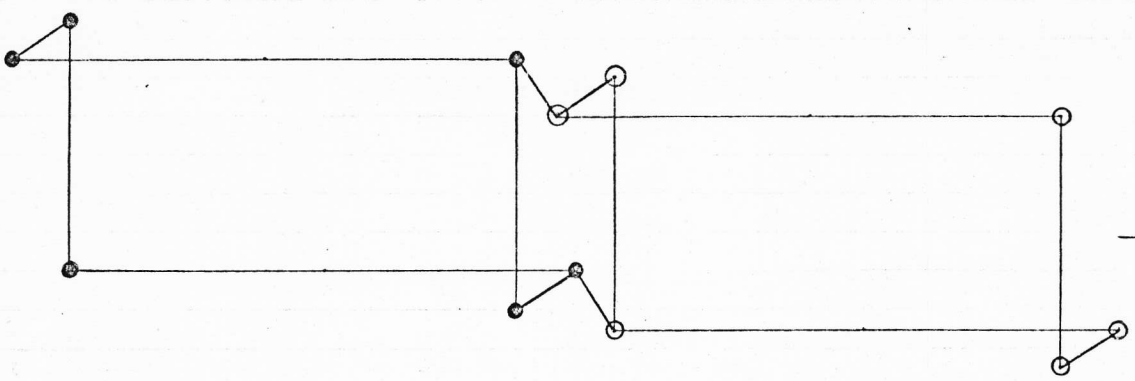
15711

9

157

1579

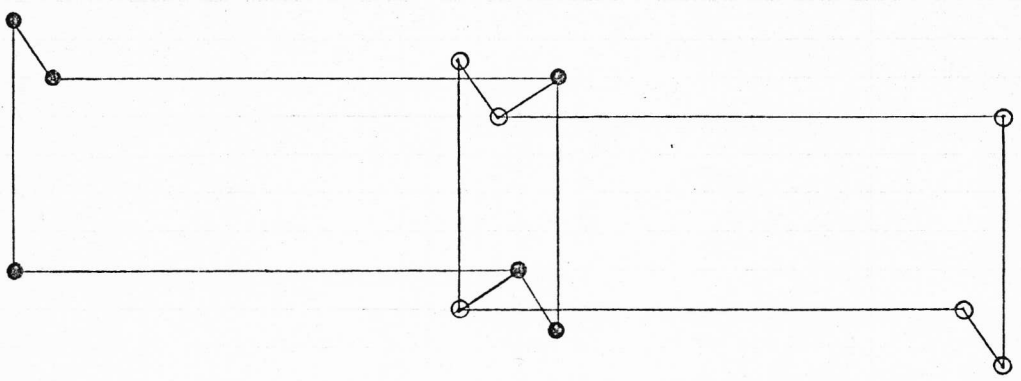
$$\frac{0}{\bullet} = \frac{9}{11}$$



15 11

15911

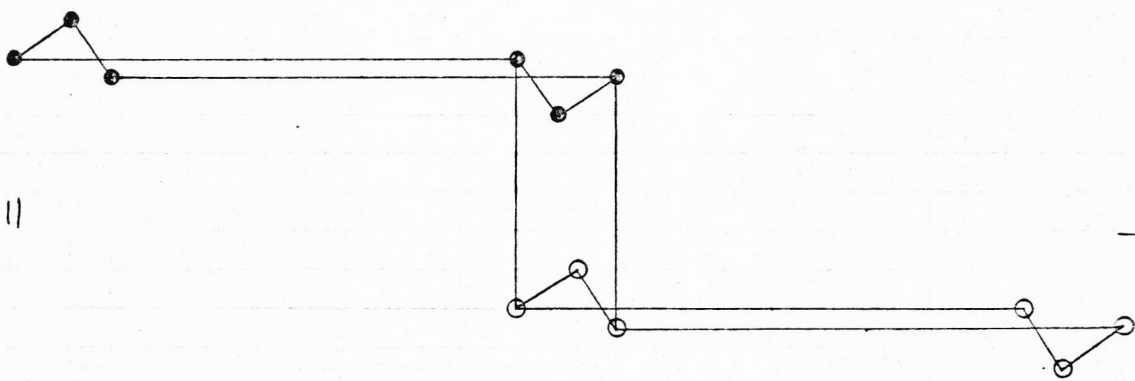
$$\frac{0}{\bullet} = \frac{9}{7}$$



1 7 11

17911

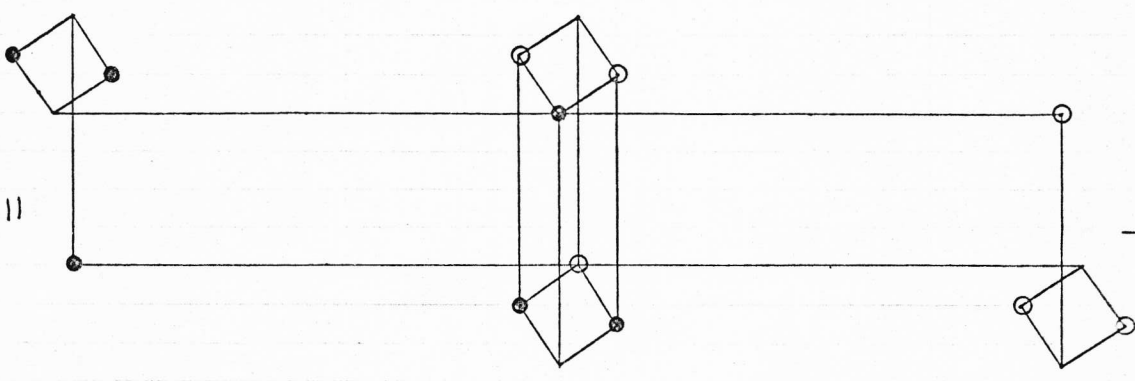
$$\frac{0}{\bullet} = \frac{9}{5}$$



5711

57911

$$\frac{0}{\bullet} = \frac{9}{1}$$



7

$\frac{3}{11}$

11

$\frac{3}{7}$

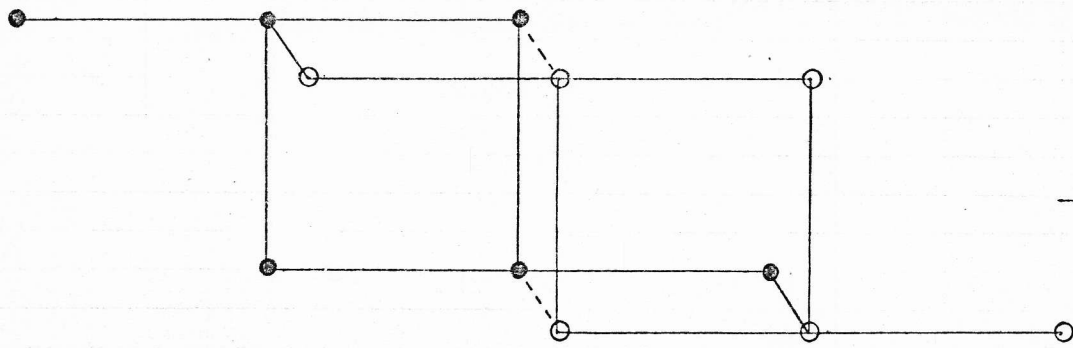
11

$\frac{3}{5}$

11

$\frac{3}{1}$

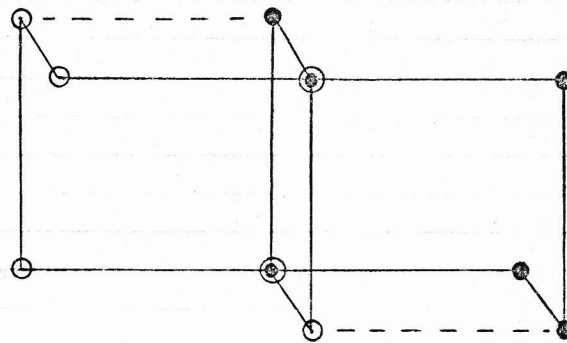
159



1359

$$\frac{0}{\bullet} = \frac{3}{11}$$

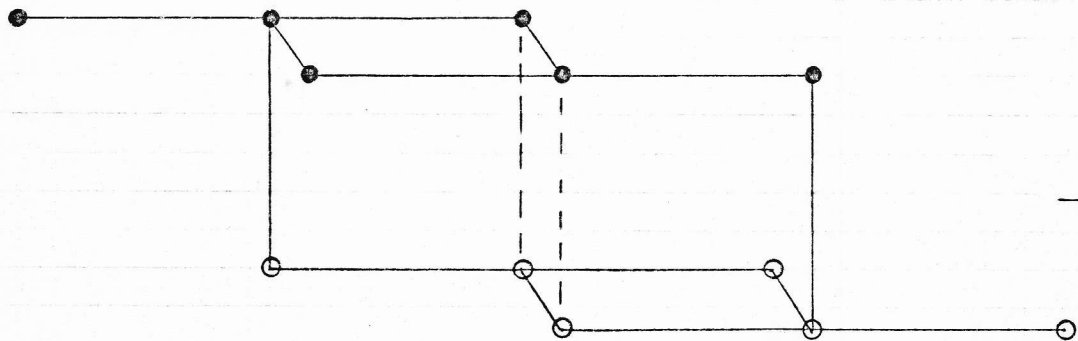
15 11



13511

$$\frac{0}{\bullet} = \frac{3}{9}$$

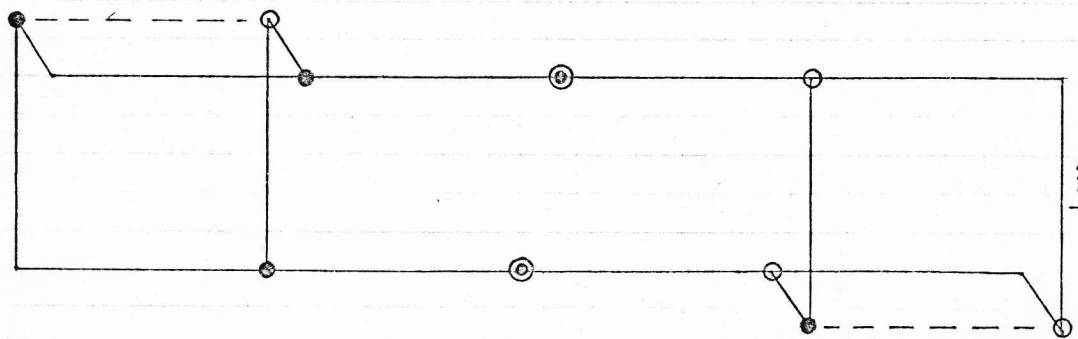
1 9 11



13911

$$\frac{0}{\bullet} = \frac{3}{5}$$

59 11



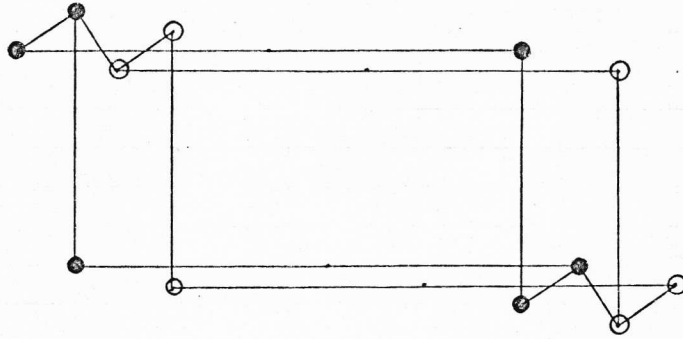
35911

$$\frac{0}{\bullet} = \frac{3}{1}$$

15911

1

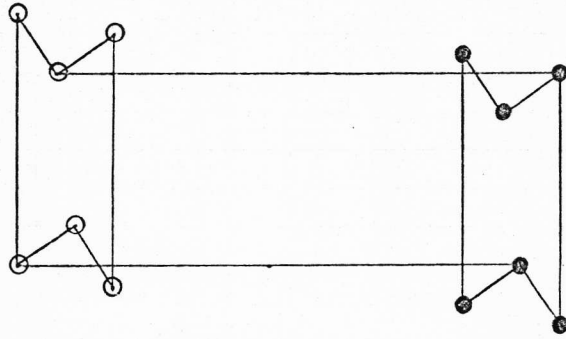
159



1579

$$\frac{0}{\bullet} = \frac{7}{11}$$

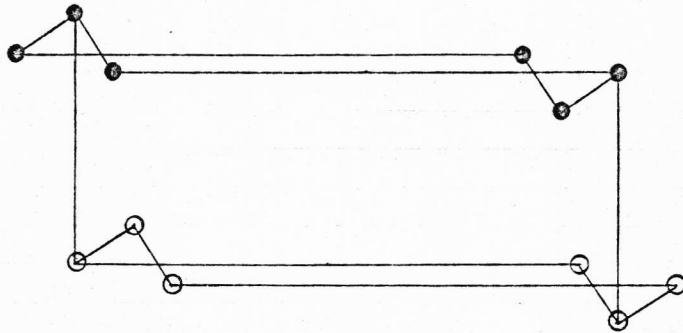
15 11



15711

$$\frac{0}{\bullet} = \frac{7}{9}$$

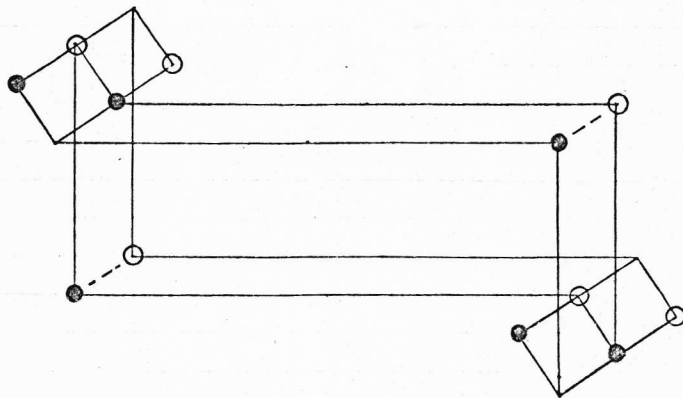
1 9 11



17911

$$\frac{0}{\bullet} = \frac{7}{5}$$

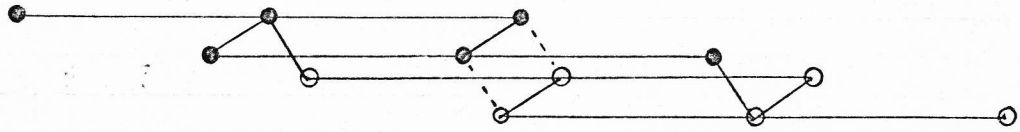
59 11



57911

$$\frac{0}{\bullet} = \frac{7}{1}$$

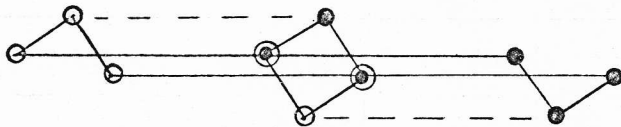
179



1379

$$\frac{0}{\bullet} = \frac{3}{11}$$

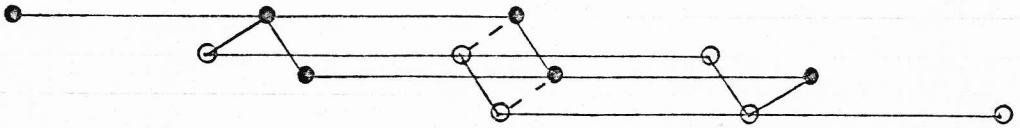
17 11



13711

$$\frac{0}{\bullet} = \frac{3}{9}$$

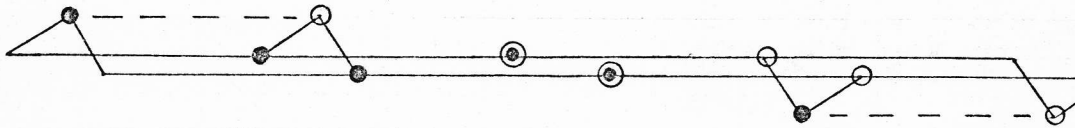
1 9 11



13911

$$\frac{0}{\bullet} = \frac{3}{7}$$

79 11

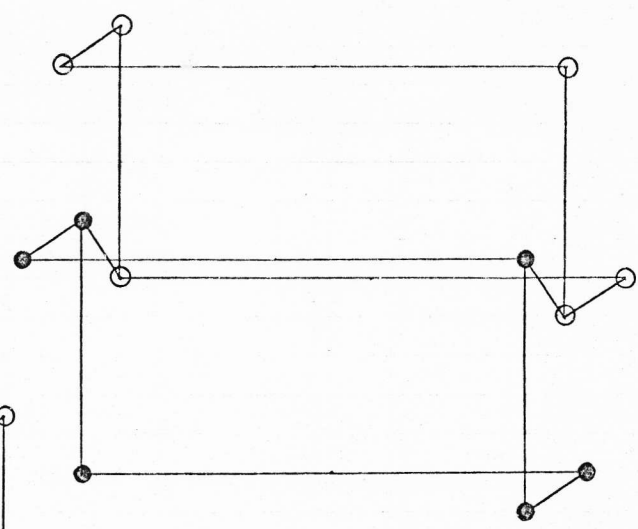


37911

$$\frac{0}{\bullet} = \frac{3}{1}$$

17911

5

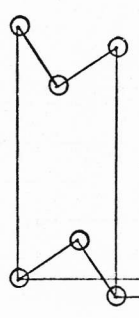


1579

$$\frac{0}{\bullet} = \frac{5}{11}$$

179

9  
3  
11

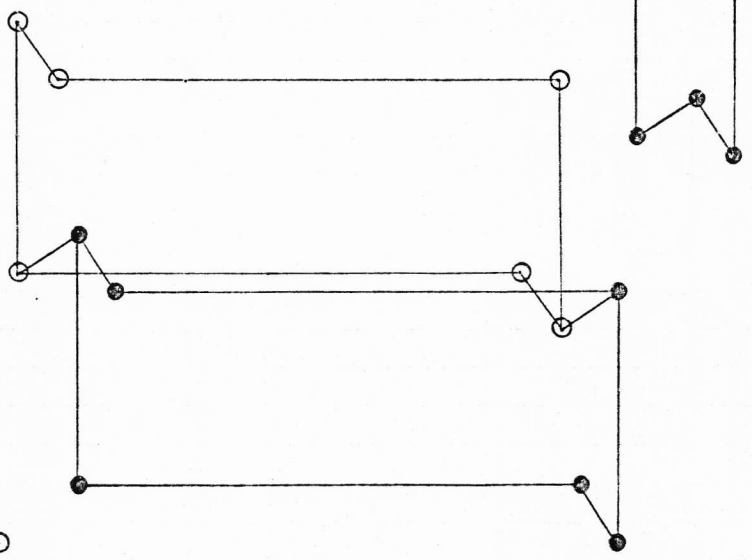


15711

$$\frac{0}{\bullet} = \frac{5}{9}$$

17 11

11  
3  
9

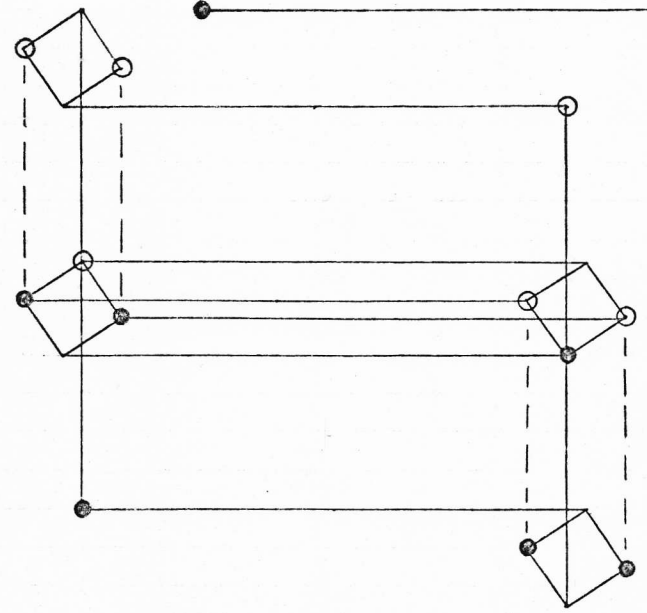


15911

$$\frac{0}{\bullet} = \frac{5}{7}$$

1 9 11

11  
3  
7



57911

$$\frac{0}{\bullet} = \frac{5}{1}$$

79 11

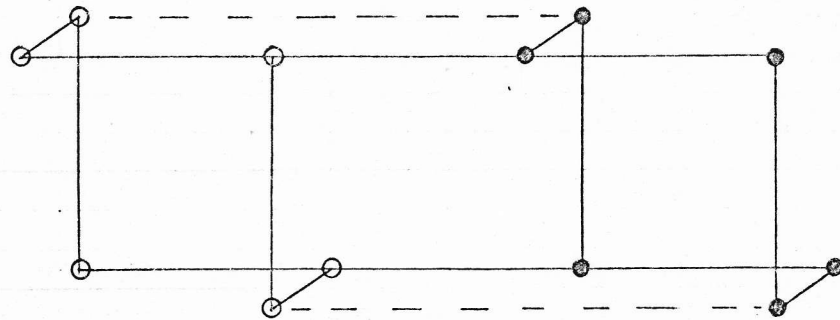
11  
3  
1



3 5 7 9

1

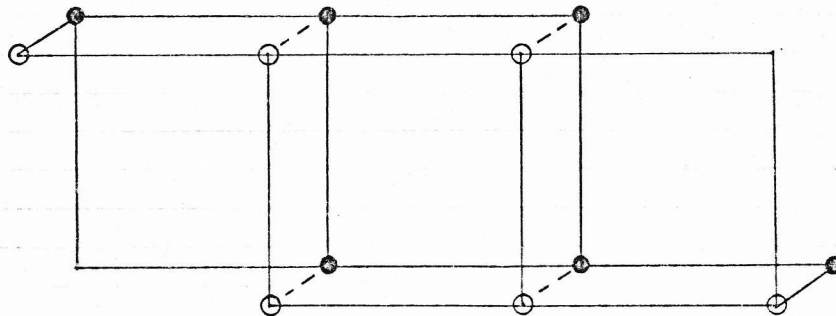
3 5 7



1 3 5 7

$$\frac{0}{\bullet} = \frac{1}{9}$$

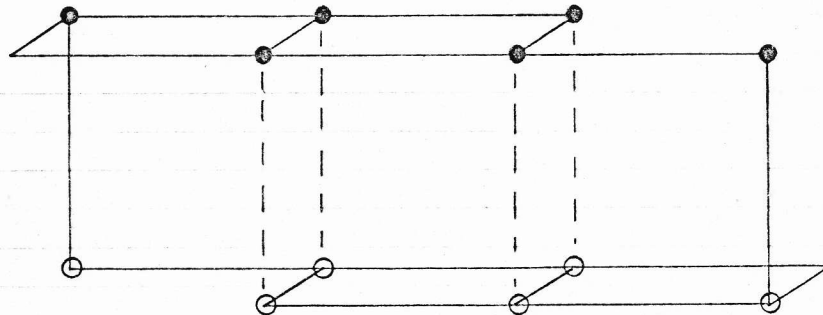
3 5 9



1 3 5 9

$$\frac{0}{\bullet} = \frac{1}{7}$$

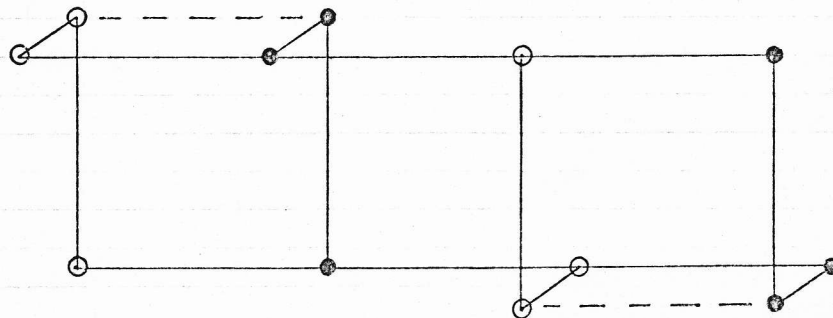
3 7 9



1 3 7 9

$$\frac{0}{\bullet} = \frac{1}{5}$$

5 7 9



1 5 7 9

$$\frac{0}{\bullet} = \frac{1}{3}$$

3 5 7 9

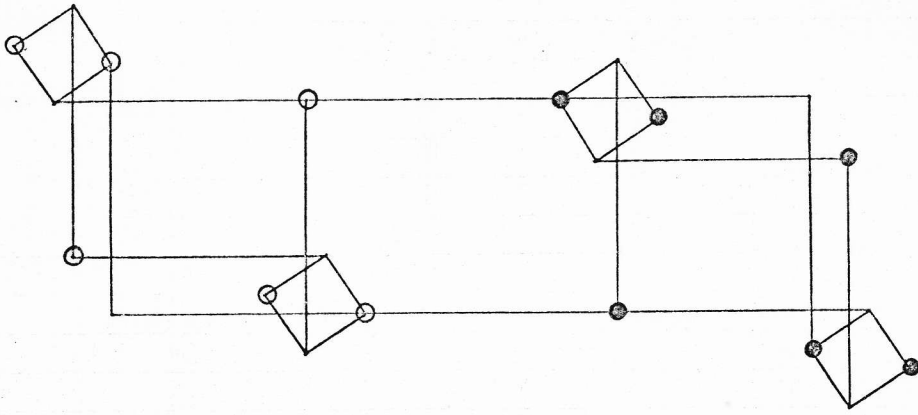
11

7

3 5 7

3 5 7 11

$$\frac{0}{\bullet} = \frac{11}{9}$$

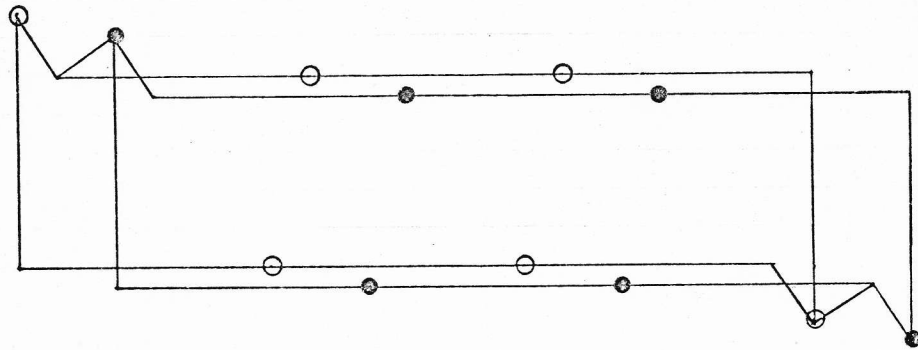


9

3 5 9

3 5 9 11

$$\frac{0}{\bullet} = \frac{11}{7}$$

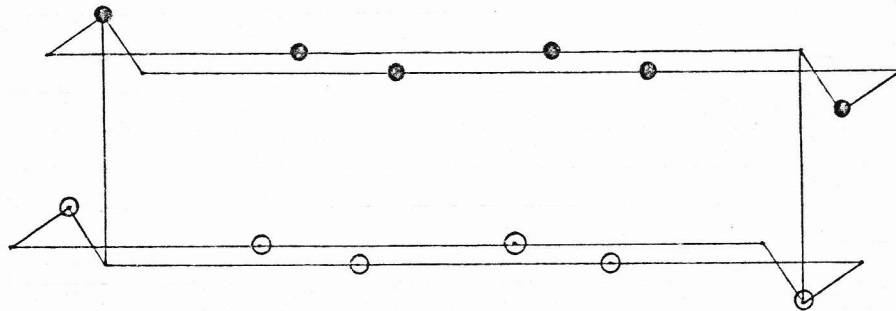


9

3 7 9

3 7 9 11

$$\frac{0}{\bullet} = \frac{11}{5}$$

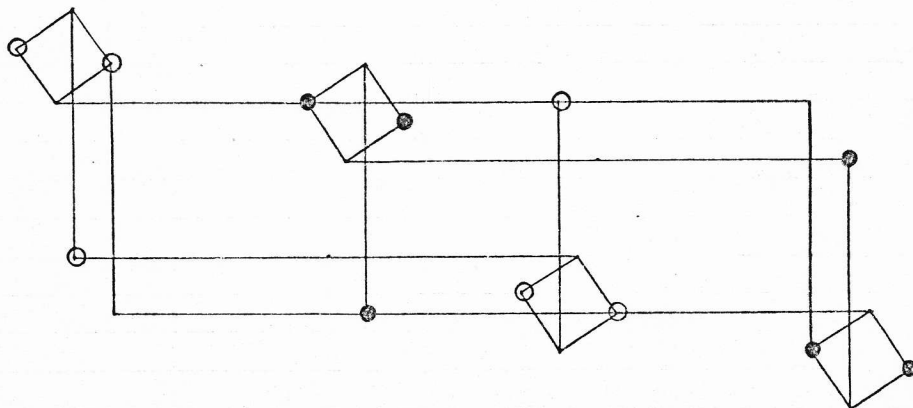


9

5 7 9

5 7 9 11

$$\frac{0}{\bullet} = \frac{11}{3}$$



1

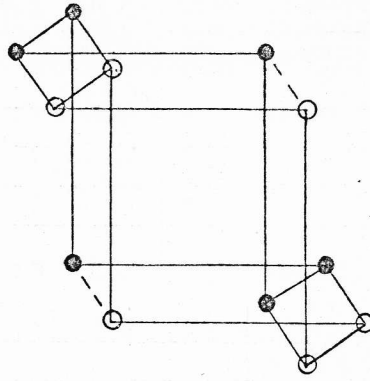
3



3 5 7 11

1

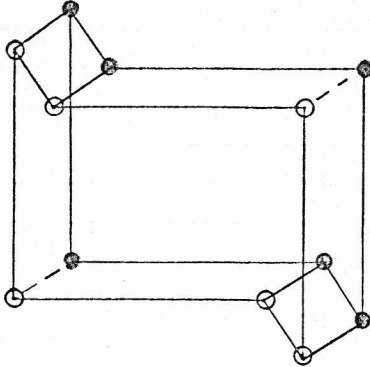
3 5 7



1 3 5 7

$$\frac{0}{\bullet} = \frac{1}{11}$$

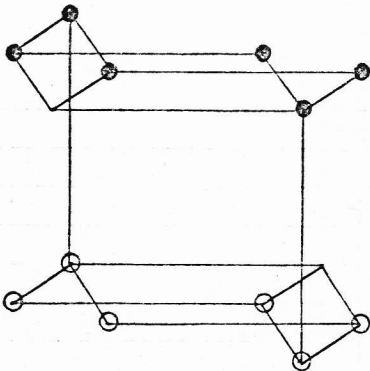
3 5 11



1 3 5 11

$$\frac{0}{\bullet} = \frac{1}{7}$$

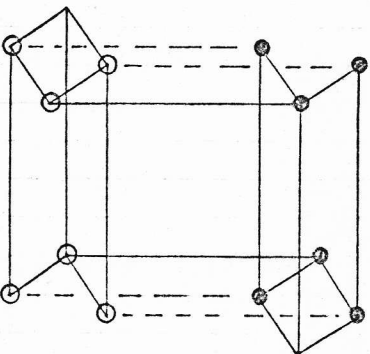
3 7 11



1 3 7 11

$$\frac{0}{\bullet} = \frac{1}{5}$$

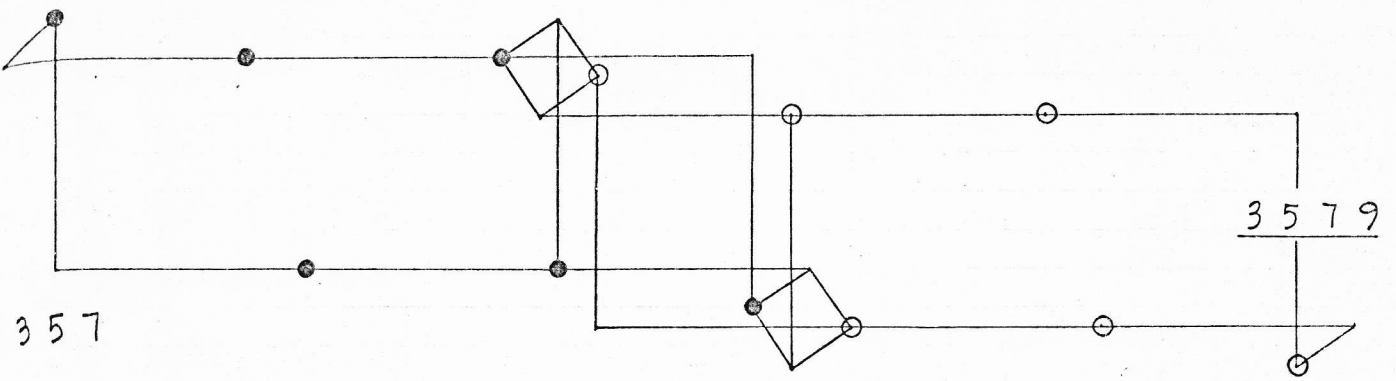
5 7 11



1 5 7 11

$$\frac{0}{\bullet} = \frac{1}{3}$$

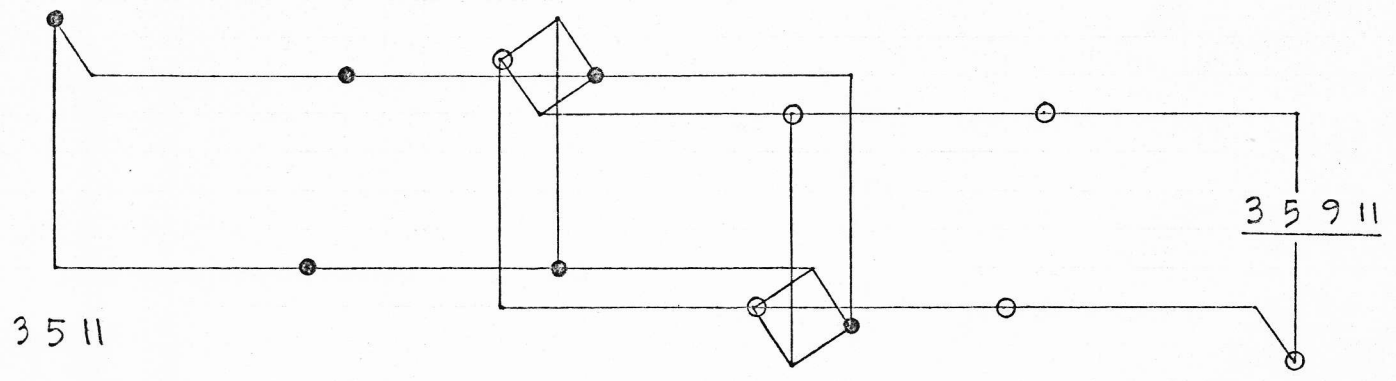
3 5 7 11



3 5 7 9

3 5 7

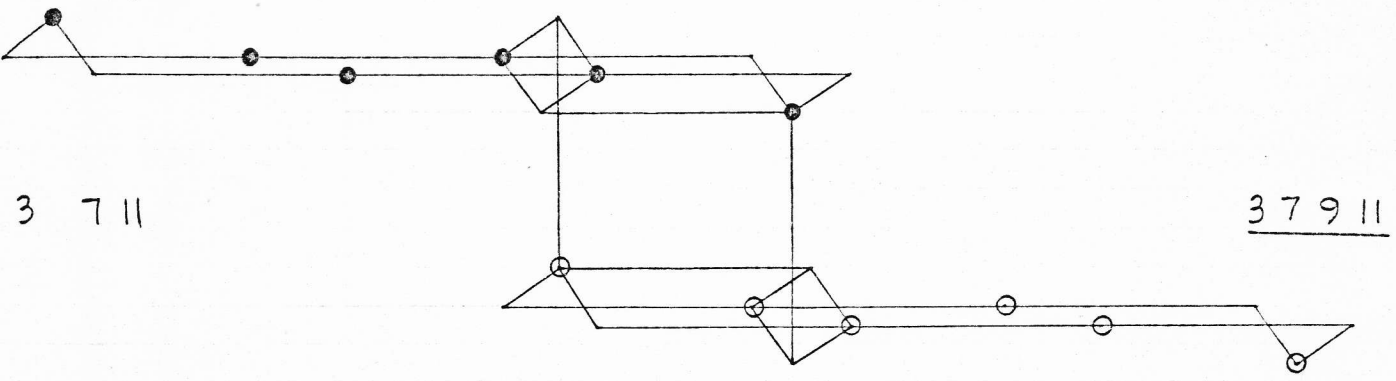
$$\frac{0}{\bullet} = \frac{9}{11}$$



3 5 9 11

3 5 11

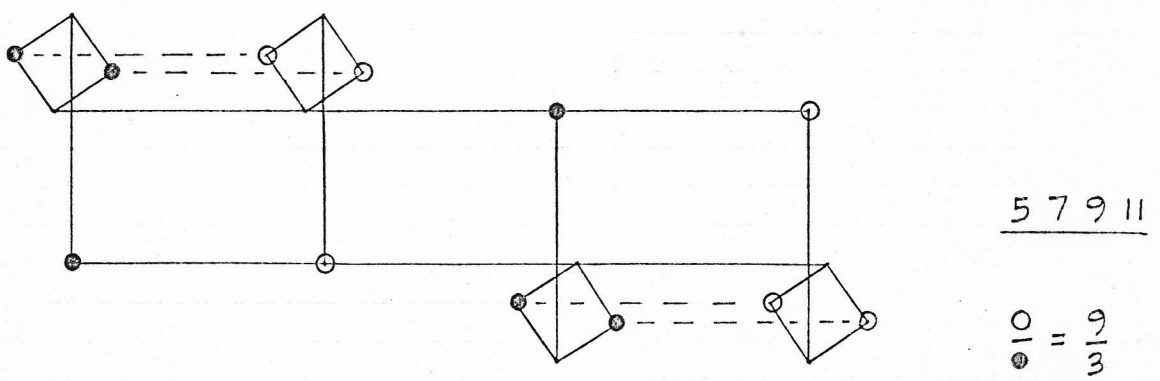
$$\frac{0}{\bullet} = \frac{9}{7}$$



3 7 9 11

3 7 11

$$\frac{0}{\bullet} = \frac{9}{5}$$



5 7 9 11

5 7 11

$$\frac{0}{\bullet} = \frac{9}{3}$$

$\frac{1}{11}$

$\frac{1}{11}$

$\frac{1}{4}$

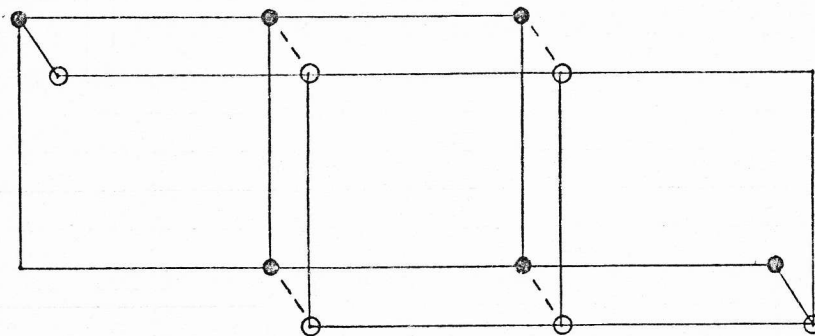
$\frac{1}{11}$

$\frac{1}{5}$

$\frac{1}{11}$

$\frac{1}{3}$

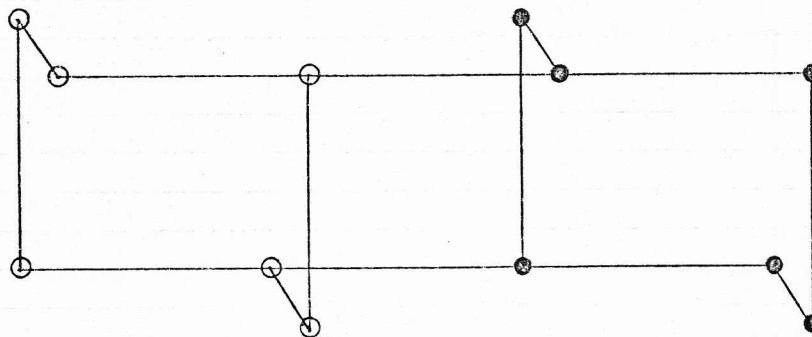
3 5 9



$$\frac{1}{359}$$

$$\frac{0}{\bullet} = \frac{1}{11}$$

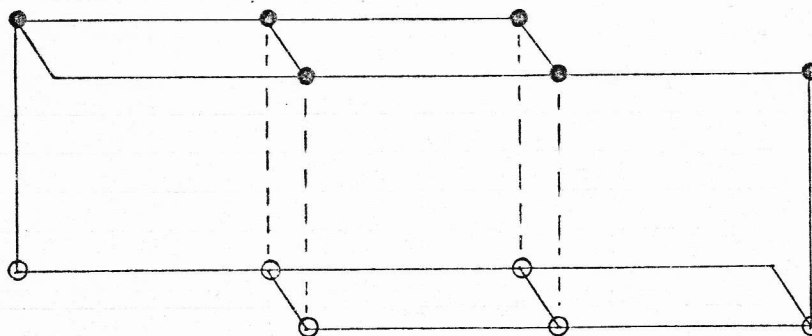
3 5 11



$$\frac{1}{3511}$$

$$\frac{0}{\bullet} = \frac{1}{9}$$

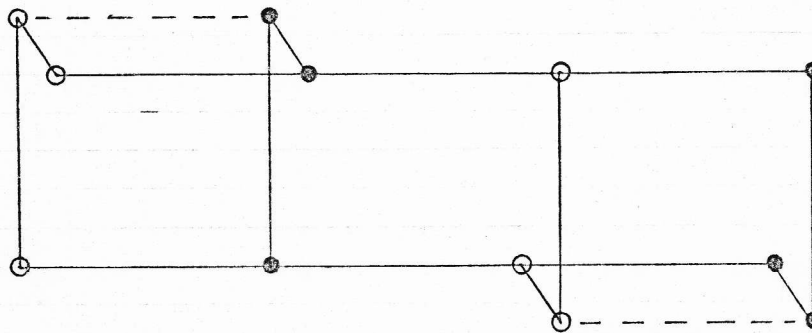
3 9 11



$$\frac{1}{3911}$$

$$\frac{0}{\bullet} = \frac{1}{5}$$

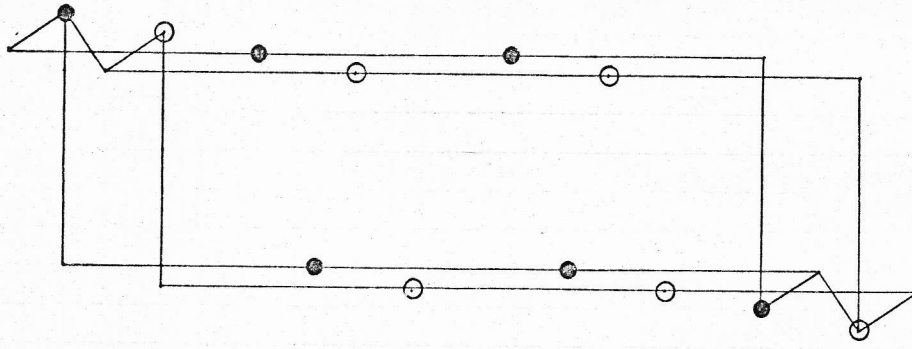
5 9 11



$$\frac{1}{5911}$$

$$\frac{0}{\bullet} = \frac{1}{3}$$

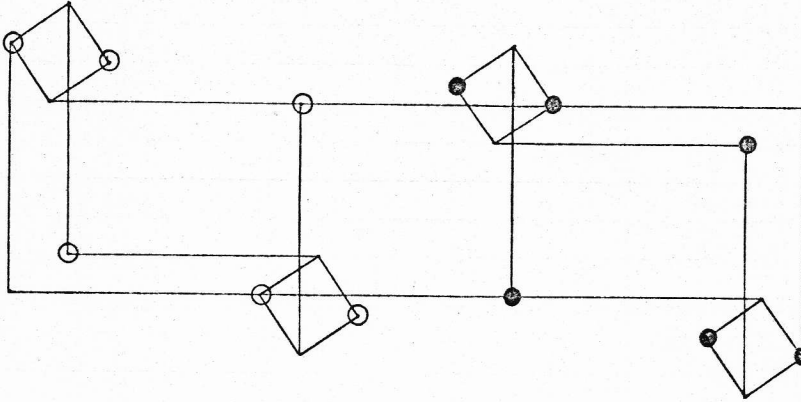
359



3579

$$\frac{\circ}{\bullet} = \frac{7}{11}$$

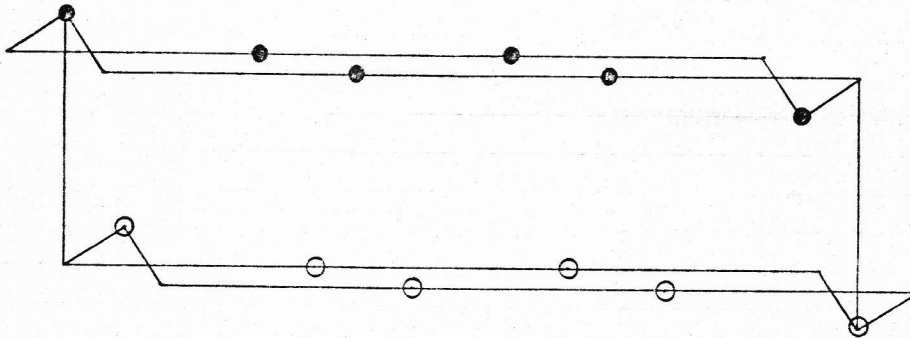
35 11



35711

$$\frac{\circ}{\bullet} = \frac{7}{9}$$

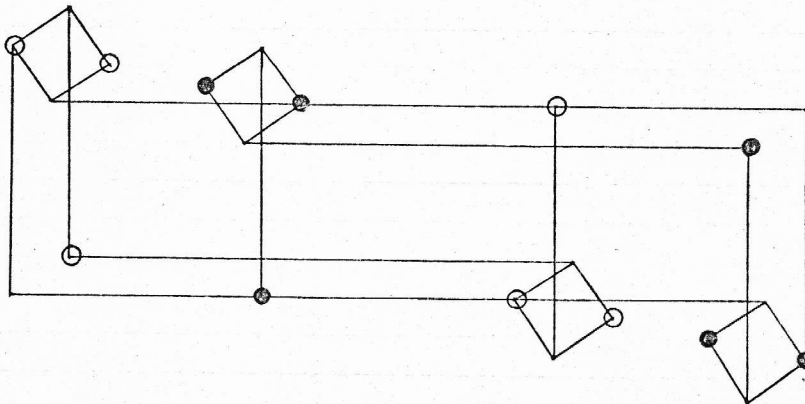
3 9 11



37911

$$\frac{\circ}{\bullet} = \frac{7}{5}$$

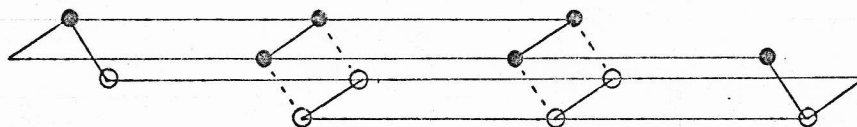
5911



57911

$$\frac{\circ}{\bullet} = \frac{7}{3}$$

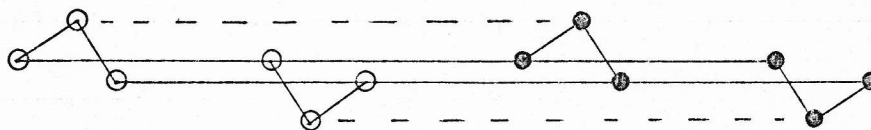
3 7 9



1 3 7 9

$$\frac{0}{\bullet} = \frac{1}{11}$$

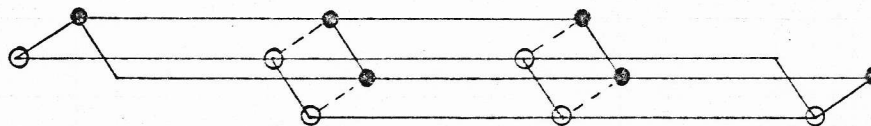
3 7 11



1 3 7 11

$$\frac{0}{\bullet} = \frac{1}{9}$$

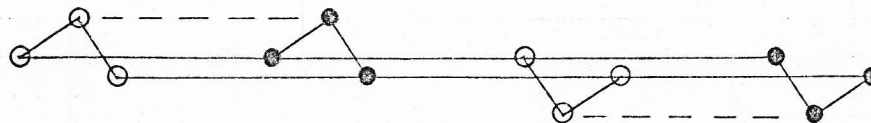
3 9 11



1 3 9 11

$$\frac{0}{\bullet} = \frac{1}{7}$$

7 9 11



1 7 9 11

$$\frac{0}{\bullet} = \frac{1}{3}$$

3 7 9 11

5

3 7 9

3 5 7 9

$$\frac{0}{\bullet} = \frac{5}{11}$$

3 7 11

3 5 7 11

$$\frac{0}{\bullet} = \frac{5}{9}$$

3 9 11

3 5 9 11

$$\frac{0}{\bullet} = \frac{5}{7}$$

7 9 11

5 7 9 11

$$\frac{0}{\bullet} = \frac{5}{3}$$

5 9

1 11

7 11

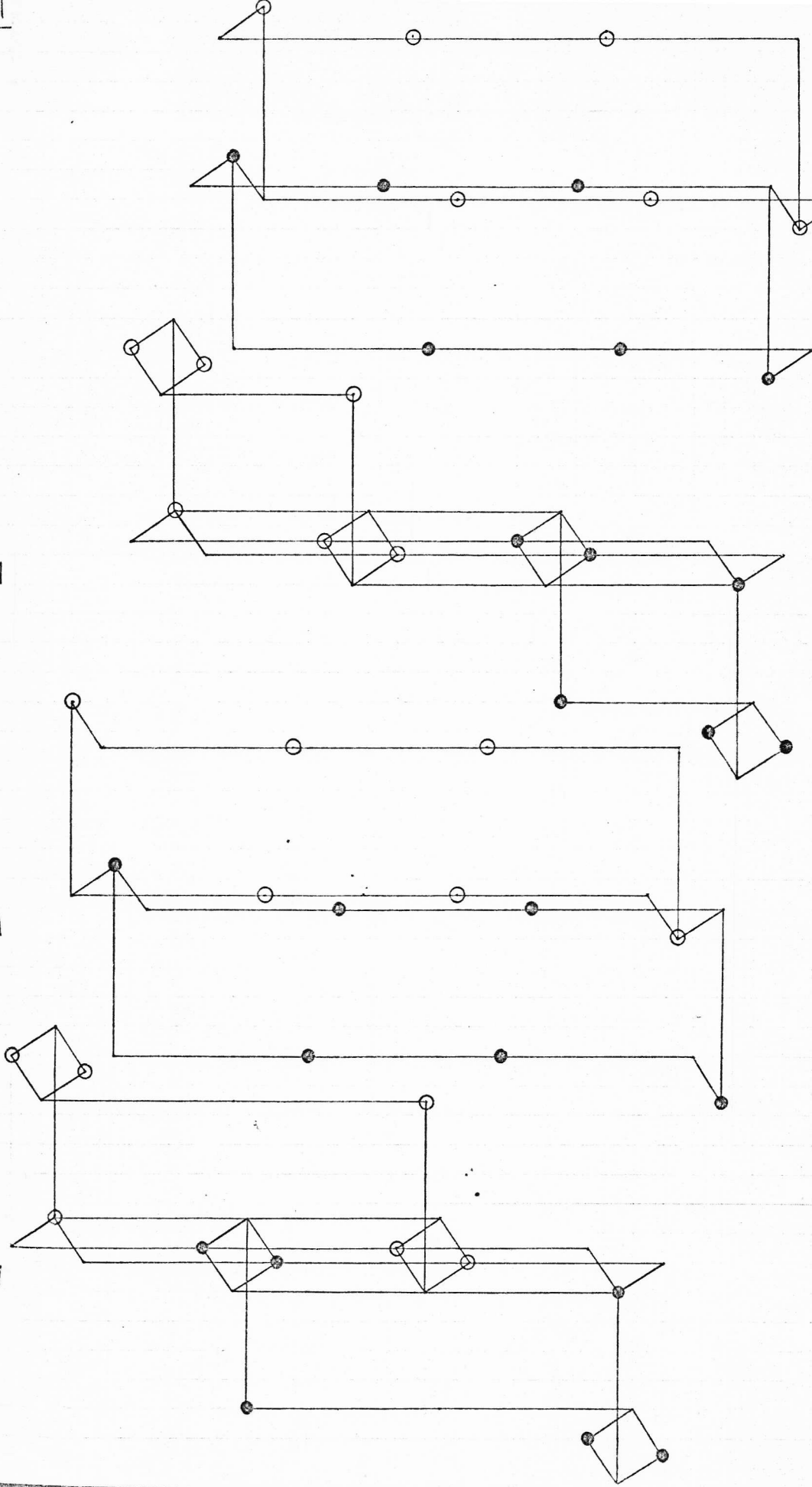
1 9

5 11

1 7

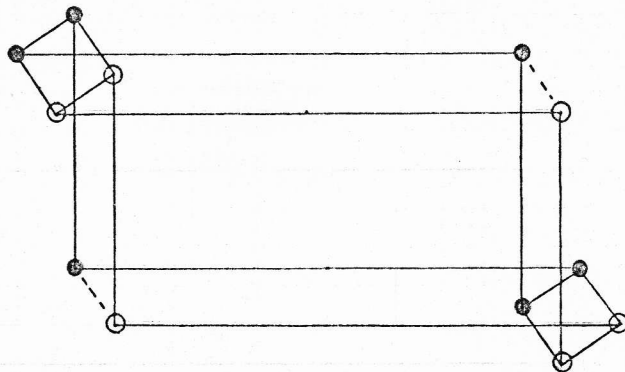
9 11

1 3





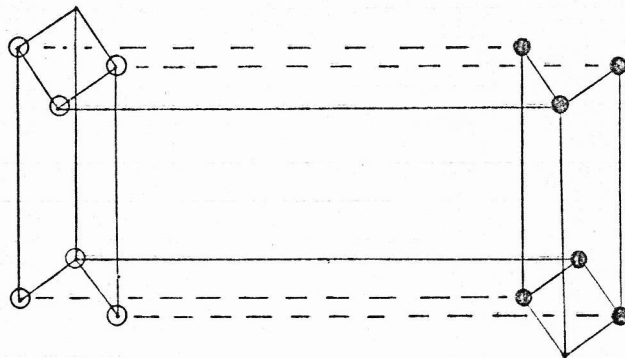
579



1579

$$\frac{0}{\bullet} = \frac{1}{11}$$

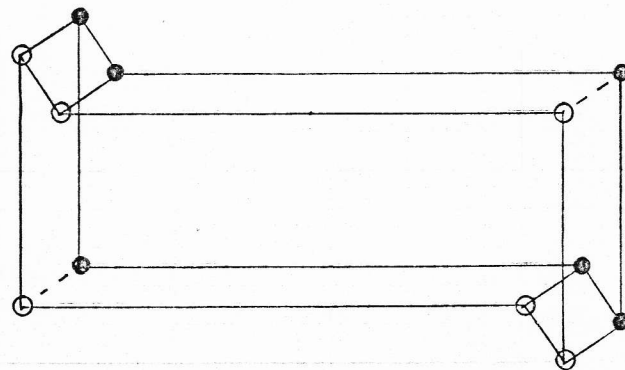
57 II



157 II

$$\frac{0}{\bullet} = \frac{1}{9}$$

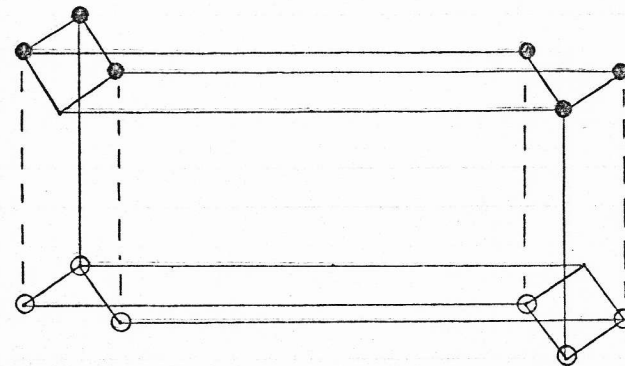
5 9 II



159 II

$$\frac{0}{\bullet} = \frac{1}{7}$$

79 II



179 II

$$\frac{0}{\bullet} = \frac{1}{5}$$

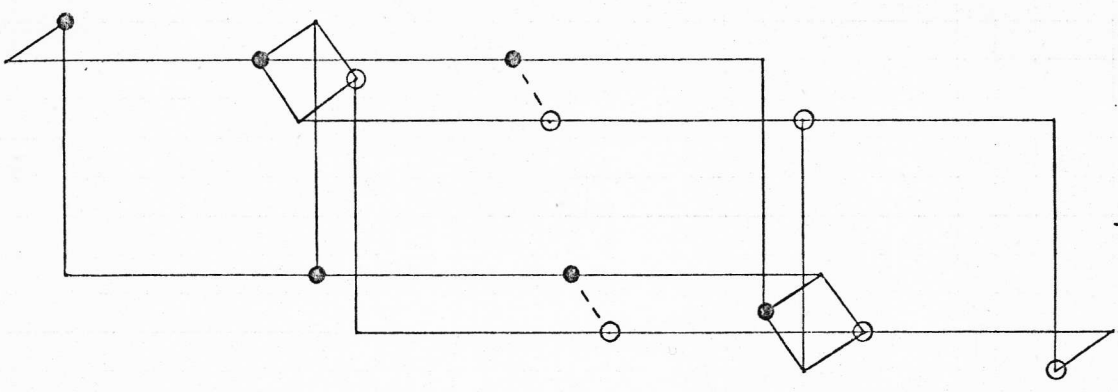
57911

3

579

3579

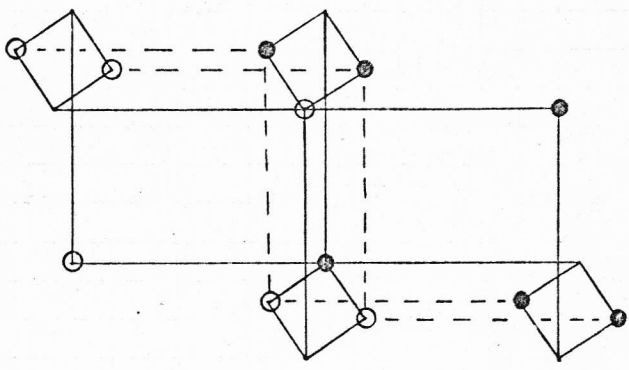
$$\frac{0}{\bullet} = \frac{3}{11}$$



57 11

35711

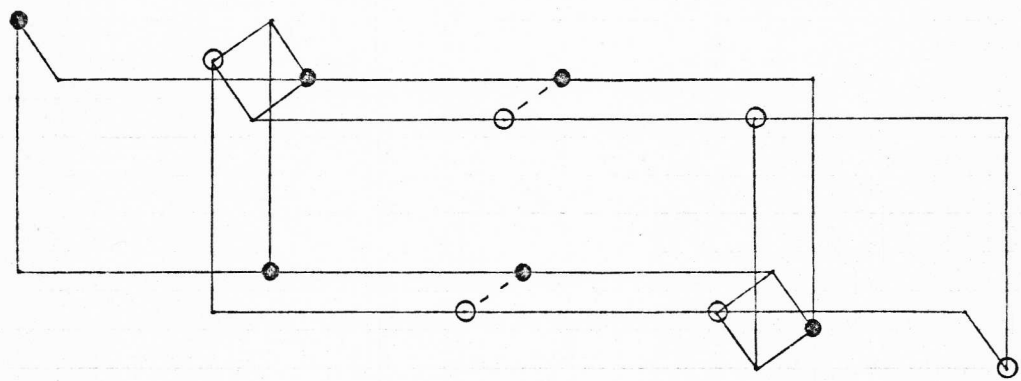
$$\frac{0}{\bullet} = \frac{3}{9}$$



5 9 11

35911

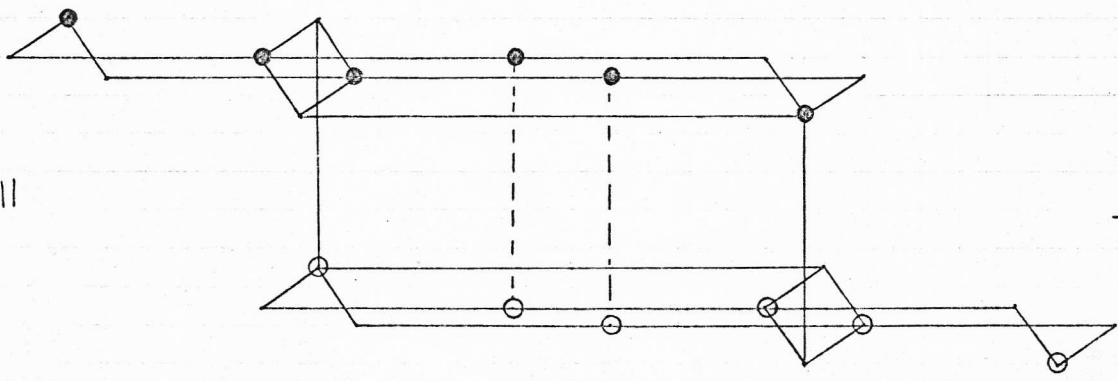
$$\frac{0}{\bullet} = \frac{3}{7}$$



79 11

37911

$$\frac{0}{\bullet} = \frac{3}{5}$$



79

1/1

7 11

1/9

9 11

1/7

9 11

1/5



central  
Hexany

3.7.9.11 | 15

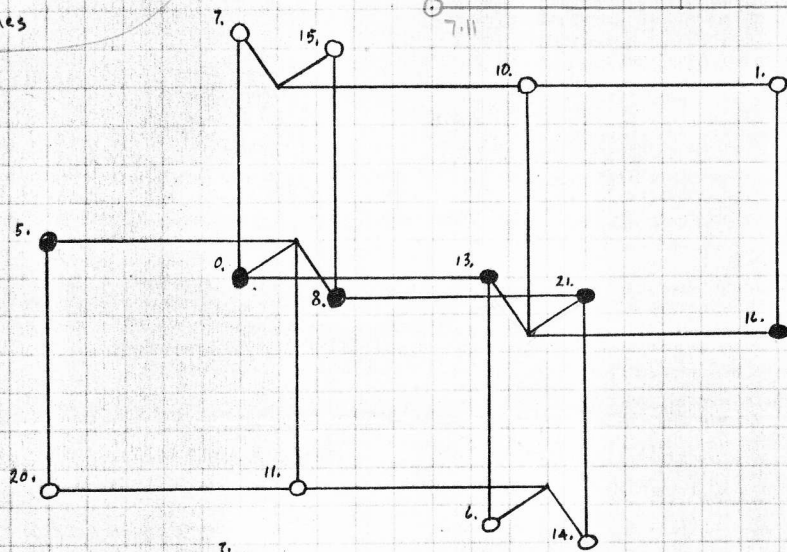
3.7.9 15

3.7.11 15

3.9.11 15

7.9.11 15

flanking  
Hexanys  
(3-tones)



22-Articulate

Fig I

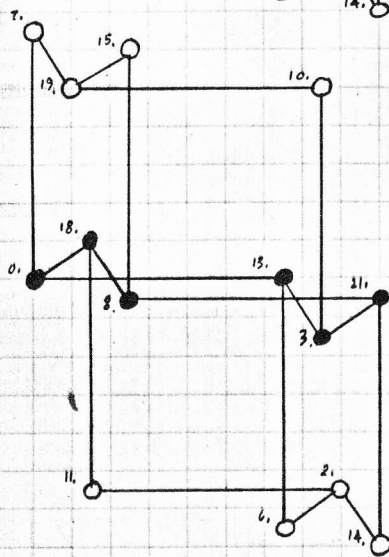


Fig II

This is not a facet  
relation with the above  
(fig I)

1 3 7 11 | 5

1 3 7 5

1 3 11 5

1 7 11 5

3 7 11 5

1 3 7 11 | 9

1 7 11 9

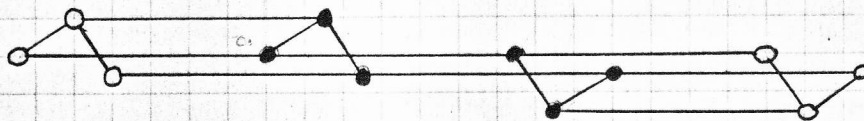


Fig III

3 7 9 11 | 1

7 9 11 1

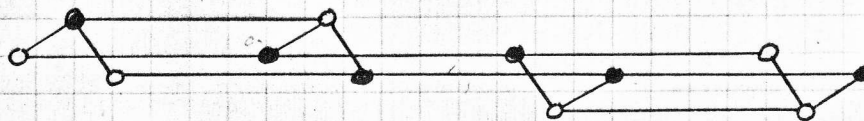


Fig IV

Dec 3, 1967

John, these are preliminary notes around & about the 7-9-11-15  
hexany in a specific application.

This  
The

