Pingala's Meru Prāstara, and Sums of the Diagonals

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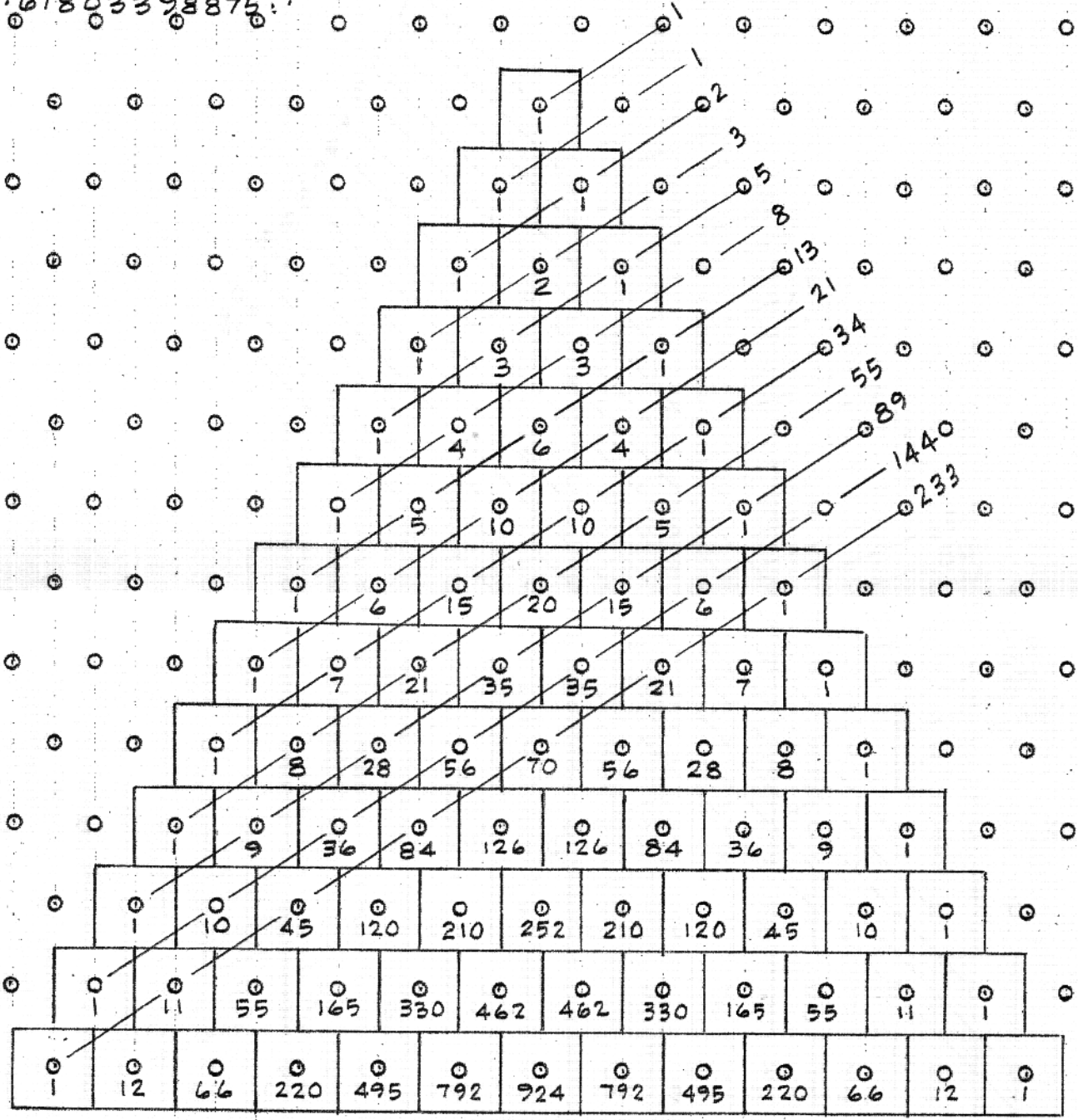
1. $H_n = H_{n-2} + H_{n-1}$

1.6180339887...



Ref: "On the use of series in Hindu mathematics"
A. N. Singh, OSIRIS Vol I, pp. 623-624, 1936
"Recurrent Sequences and Pascals Triangle"
Thomas M. Green, Mathematics Magazine Vol. 41, 1968
Also see; "The Scales of Mt. Meru" 1993, Erv Wilson

Fig 1

2. $H_n = H_{n-3} + H_{n-1}$

1.4655712318 8..

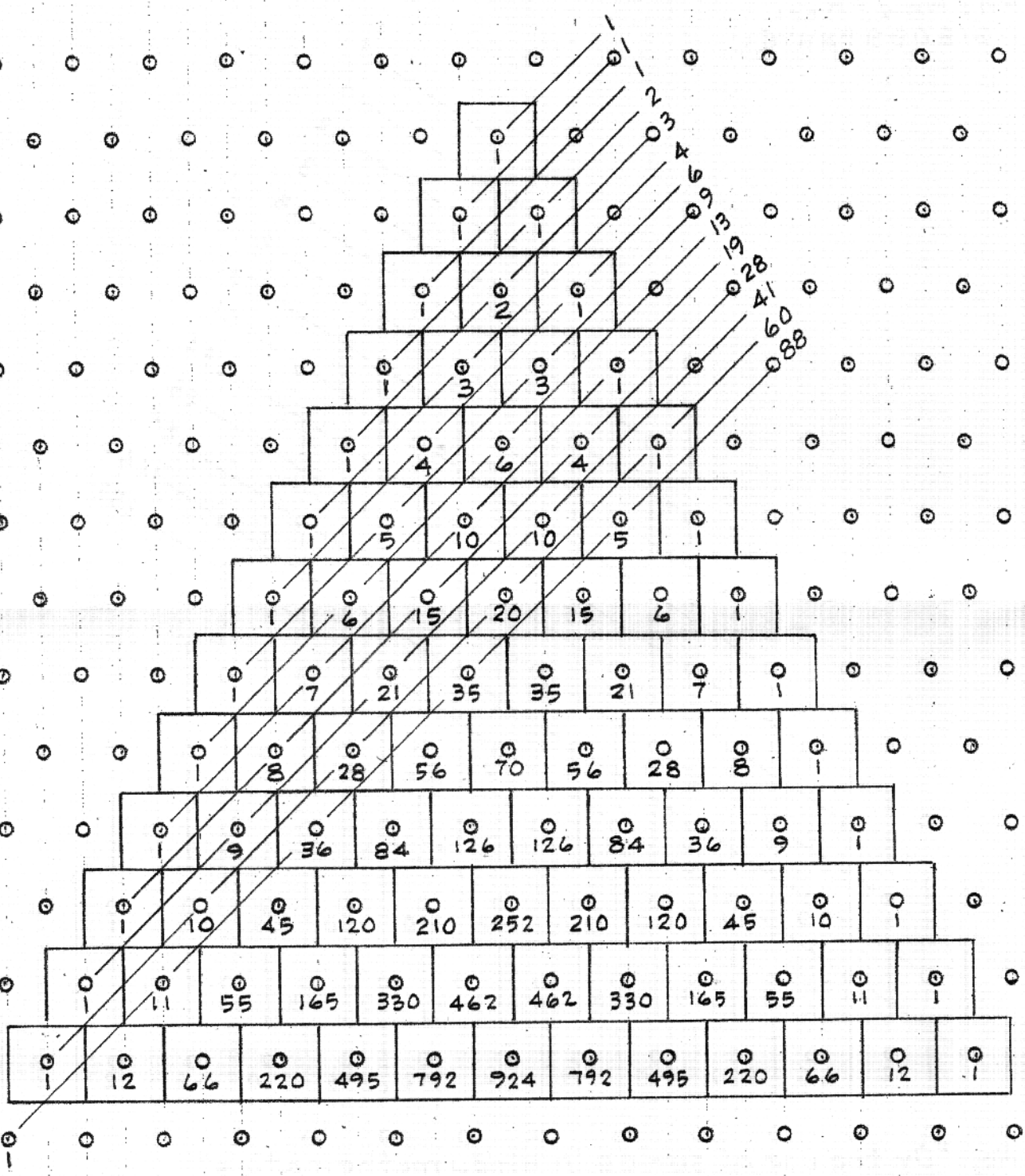


Fig 2

3. $H_n = H_{n-3} + H_{n-2}$

1.324717957 25...

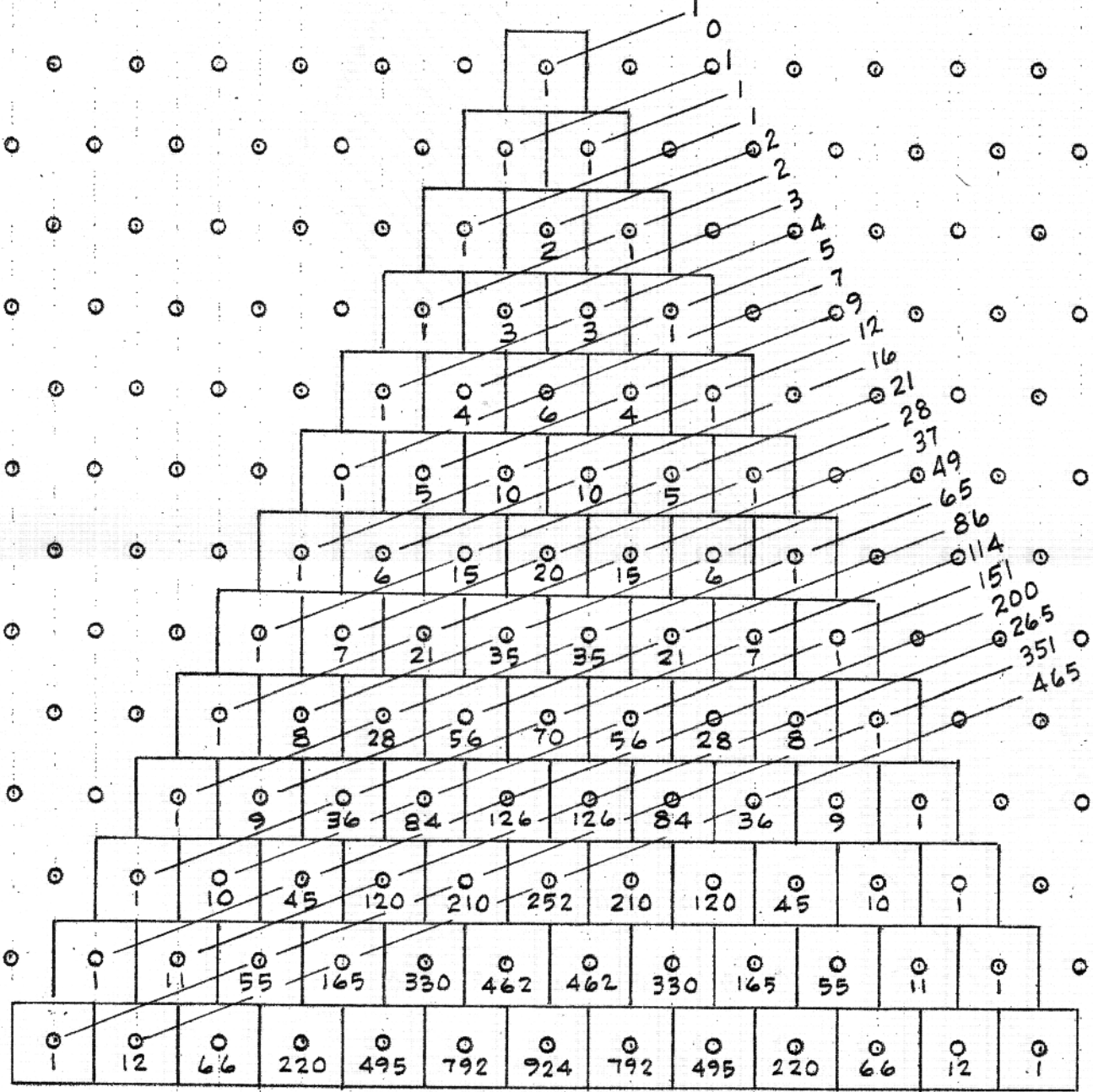


Fig 3

4. $H_n = H_{n-4} + H_{n-1}$
1.380277569 09...

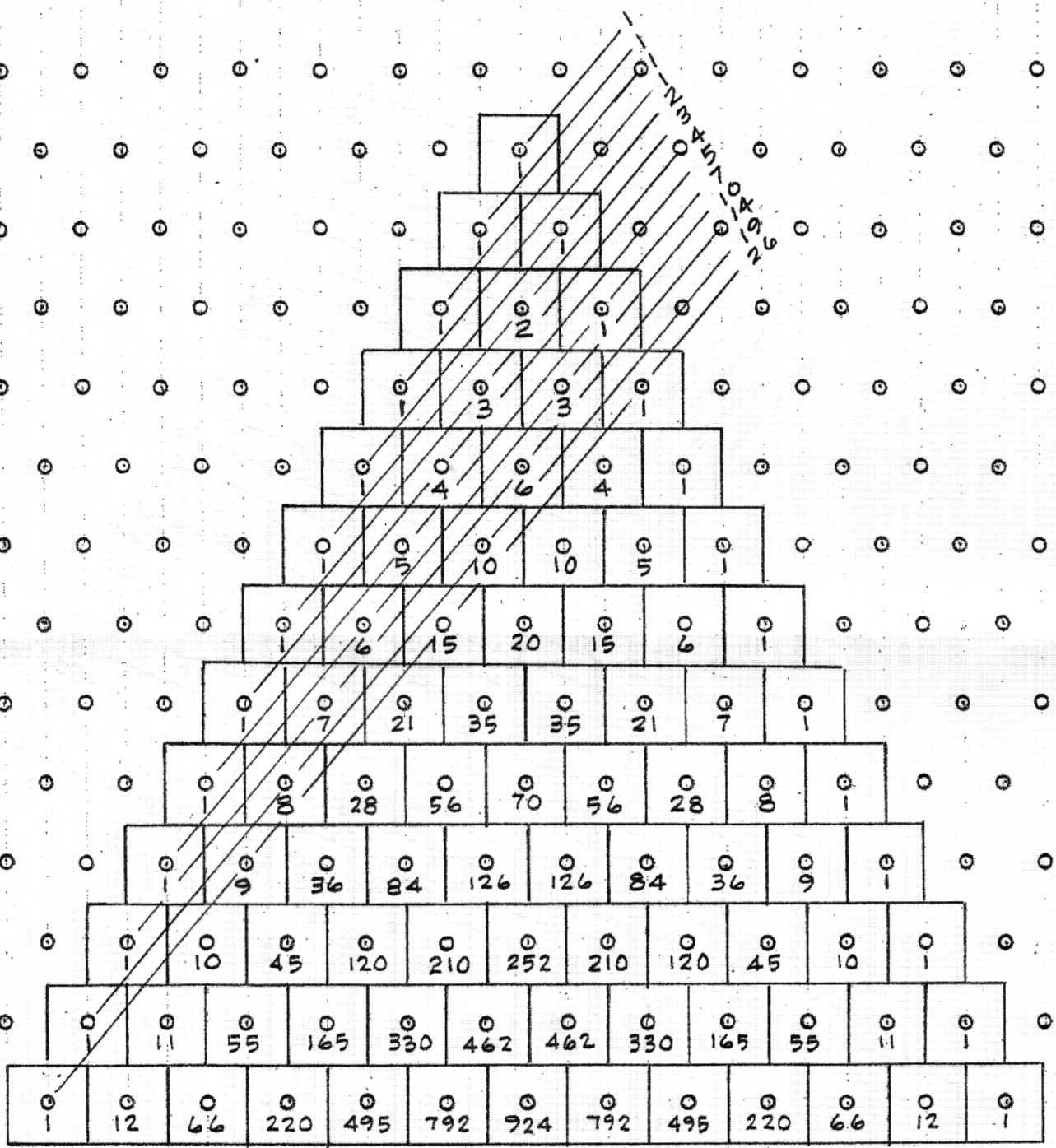


Fig 4

5. $H_n = H_{n-4} + H_{n-3}$
1.220744084 61...

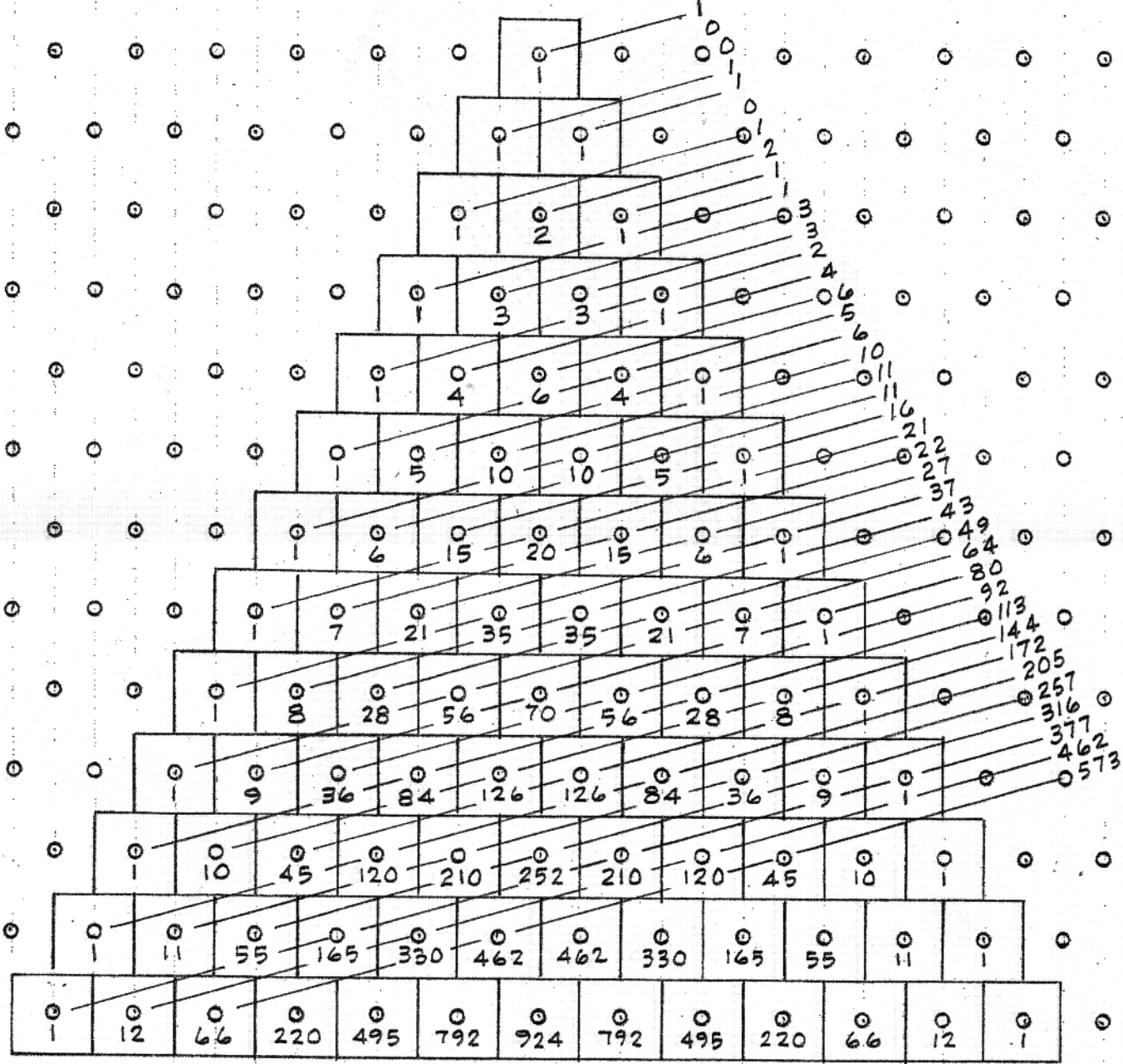


Fig. 5

6. $H_n = H_{n-5} + H_{n-1}$

1.3247179572 4...

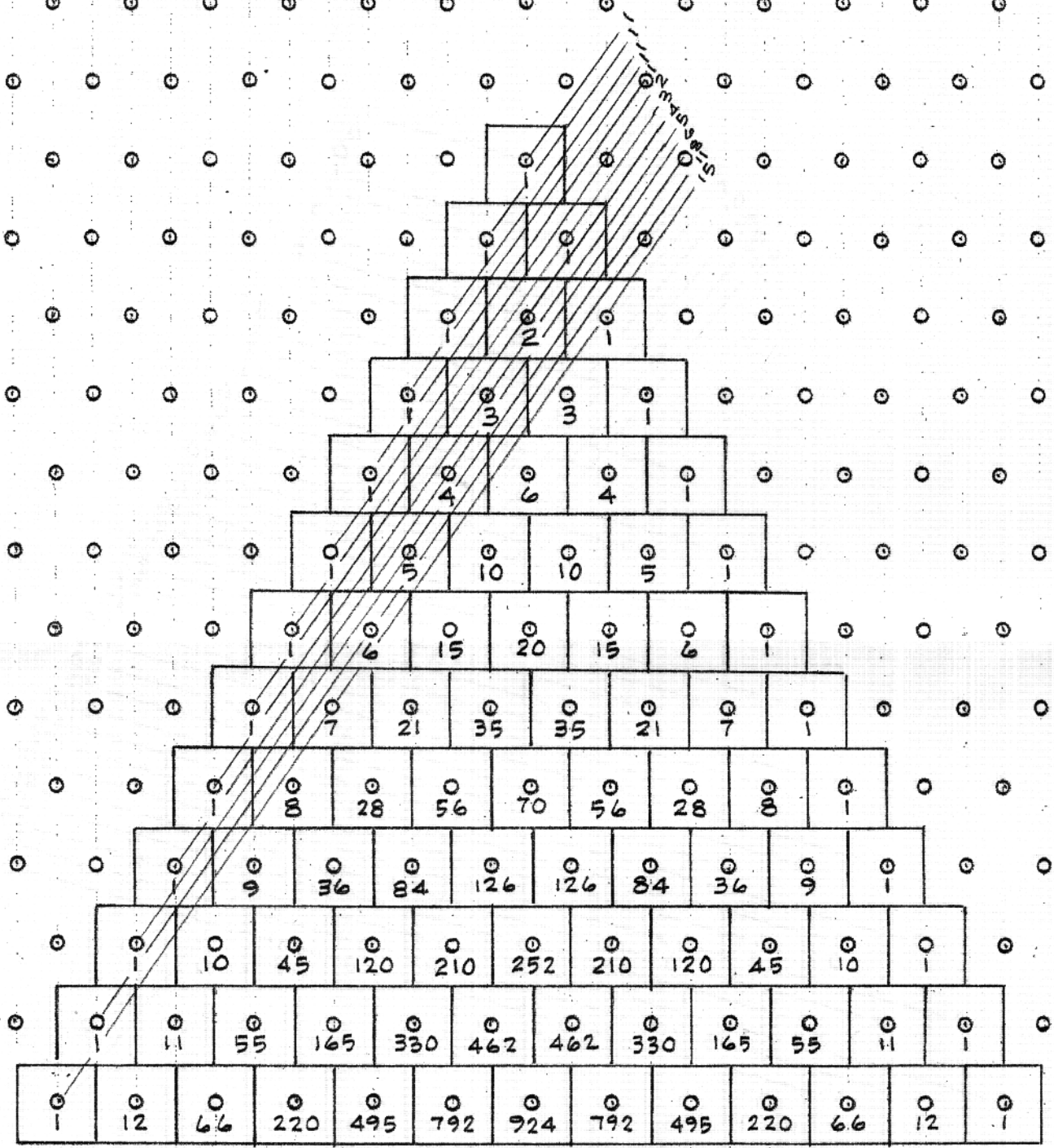


Fig. 6

7. $H_n = H_{n-5} + H_{n-2}$

1.2365057039

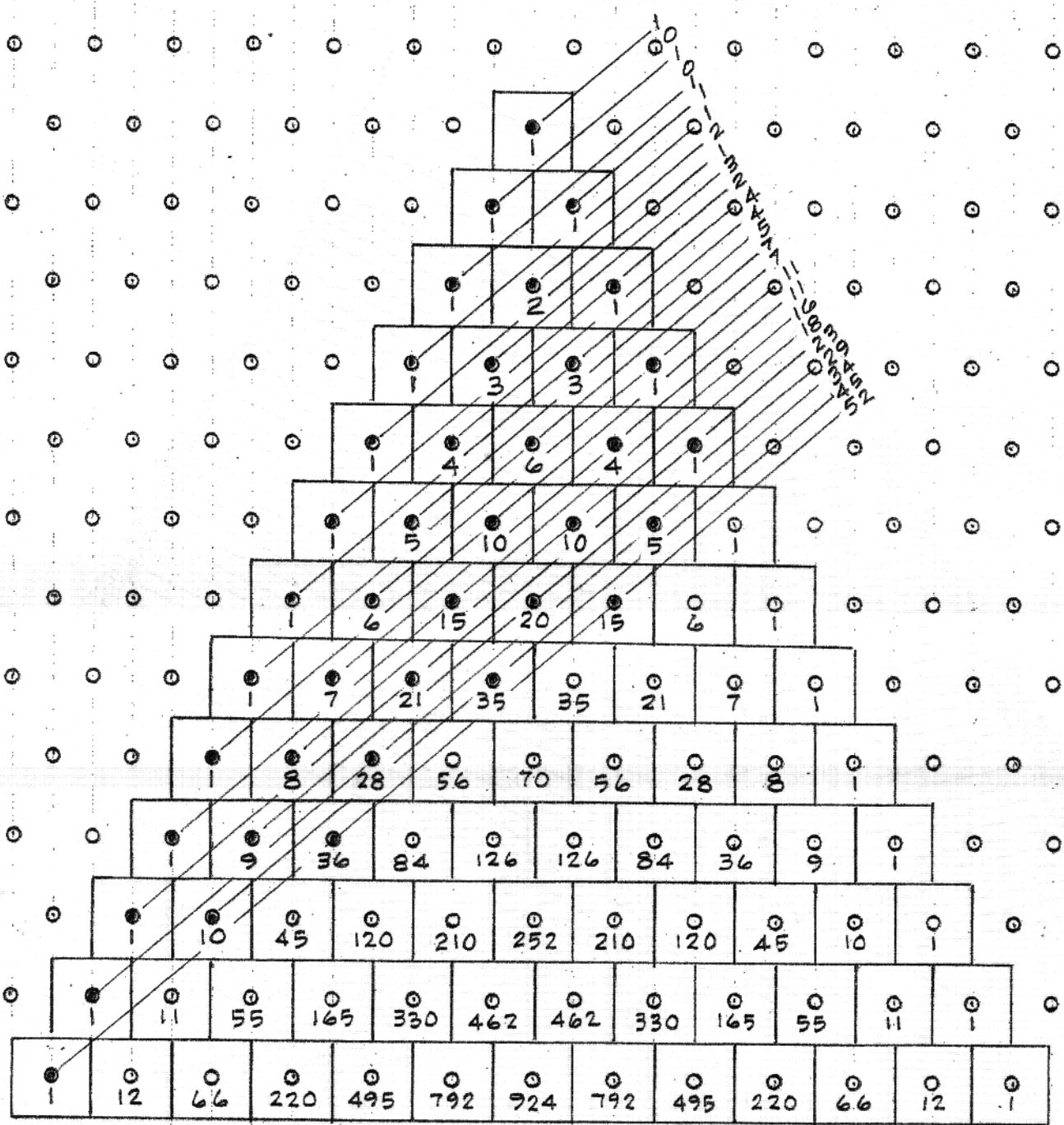


Fig. 7

8. $H_n = H_{n-5} + H_{n-3}$

1.193859111 32...

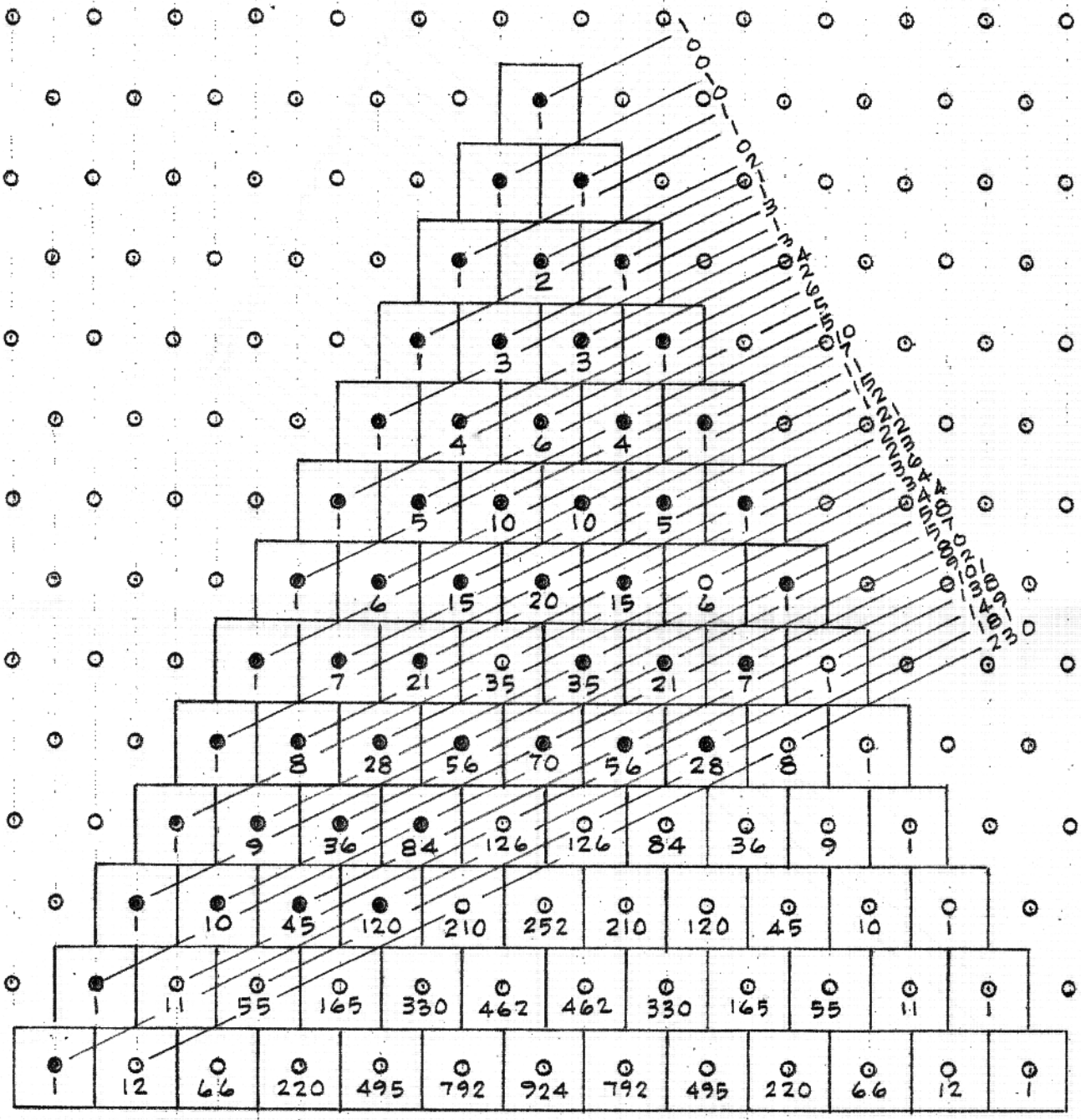


Fig. 8

9. $H_n = H_{n-5} + H_{n-4}$

1.167303978 26...

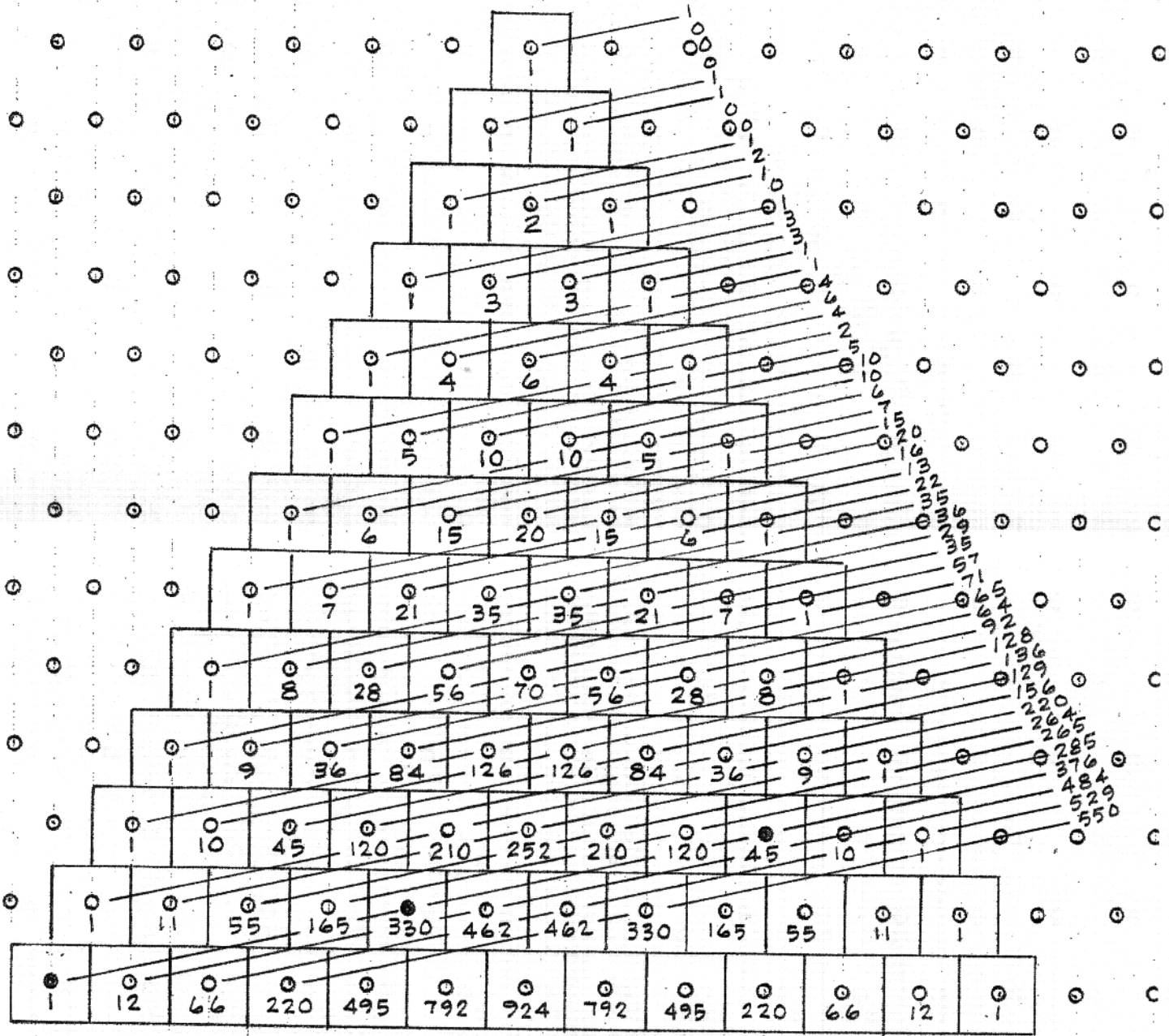
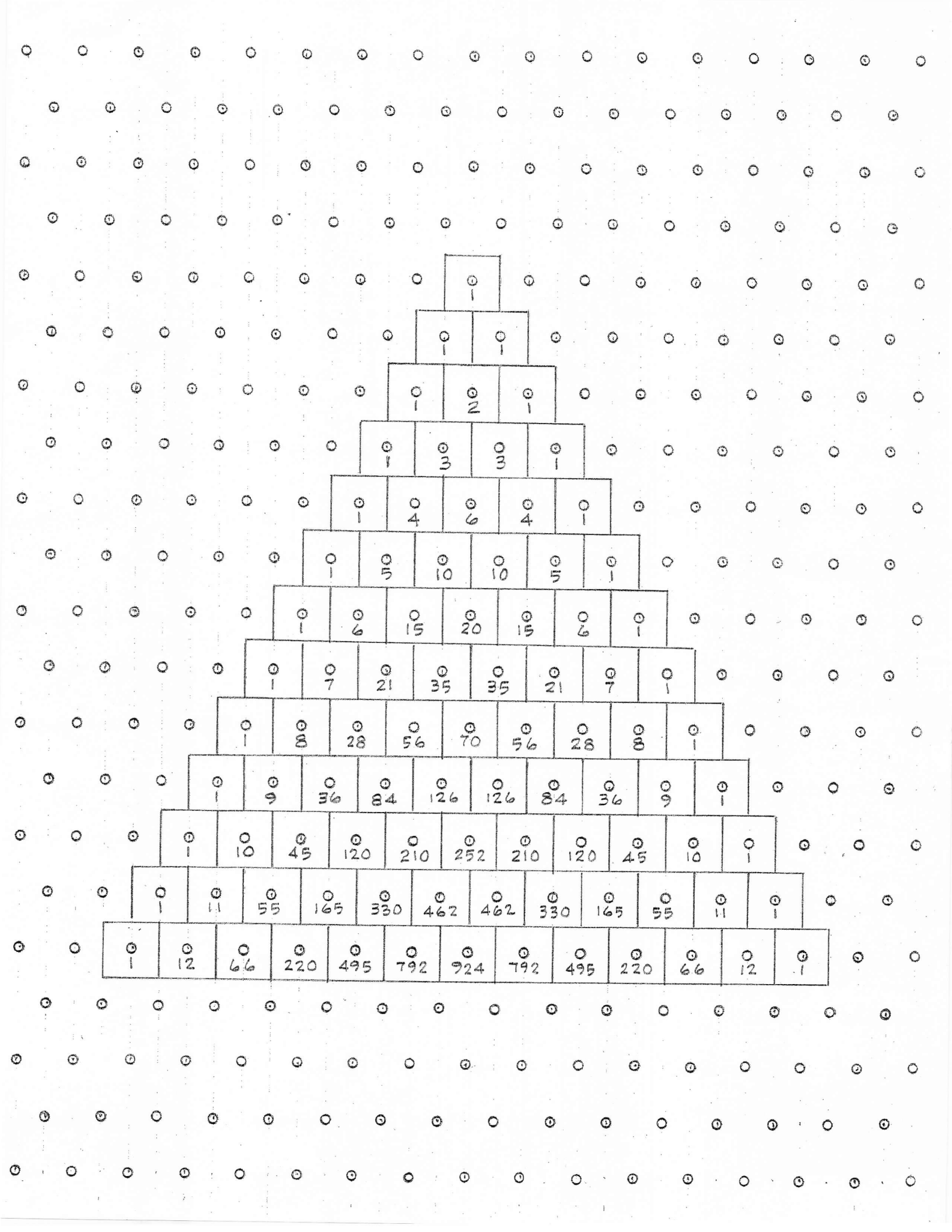


Fig. 9


1
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1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1
1 6 15 20 15 6 1
1 7 21 35 35 21 7 1
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1 9 36 84 126 126 84 36 9 1
1 10 45 120 210 252 210 120 45 10 1
1 11 55 165 330 462 462 330 165 55 11 1
1 12 66 220 495 792 924 792 495 220 66 12 1