July 2022

Box 15, Folder 22 - "Equations" (E.M.S.?)

Edwin Mortimer Standing

I

(1) x^n and Shape

$3 \times 8 = 8 \times 3$.

$6 \times 6 =$ A Square.

Ik Squares –

Building Ik Square (25-)

(a) x^n

(b) $\div$

(c) $\sqrt{\ }$

$(a+b)^2 = a^2 + 2ab + b^2$

(On squared paper)

Various examples

$8^2 =$ (cut out)

$(5+3)^2 =$

$(6+2)^2$ =

$(3+3)^2$ =

So the formula again

$(a+b)^2$ =

~~a+b~~

~~(a-b)~~

Second formula

$(a+b)(a-b) = a^2 - b^2$

Several Examples.

To find the Sq Root

(a) Give 9

" 36

" 81

" 100.

III

Gme (Sq. paper)

144

Short Way

Cut out To 100.

10 and Something

~~Go into~~

Bmed up Squares $13^2 \cdot 14^2$ 19^2
20^2

21, 23,

$(a+b)^2 = a^2 + 2ab + b^2$

$(t+u)^2 = t^2 + u^2 + 2(+u)$

Sq Root of 144

Bringing D System

$\sqrt{64}$

$\sqrt{225}$

$15^2 = 225$

15
15
75

$\sqrt{100}$

$\sqrt{324}$

$\sqrt{144}$

$\sqrt{400}$

$18^2 =$

18
18
144

18
324

$\sqrt{529}$

23
23
69
46
529

$\sqrt{1156}$

34
34
136
102
1156

2025

44 45
44 45
176 225
6 180

2025