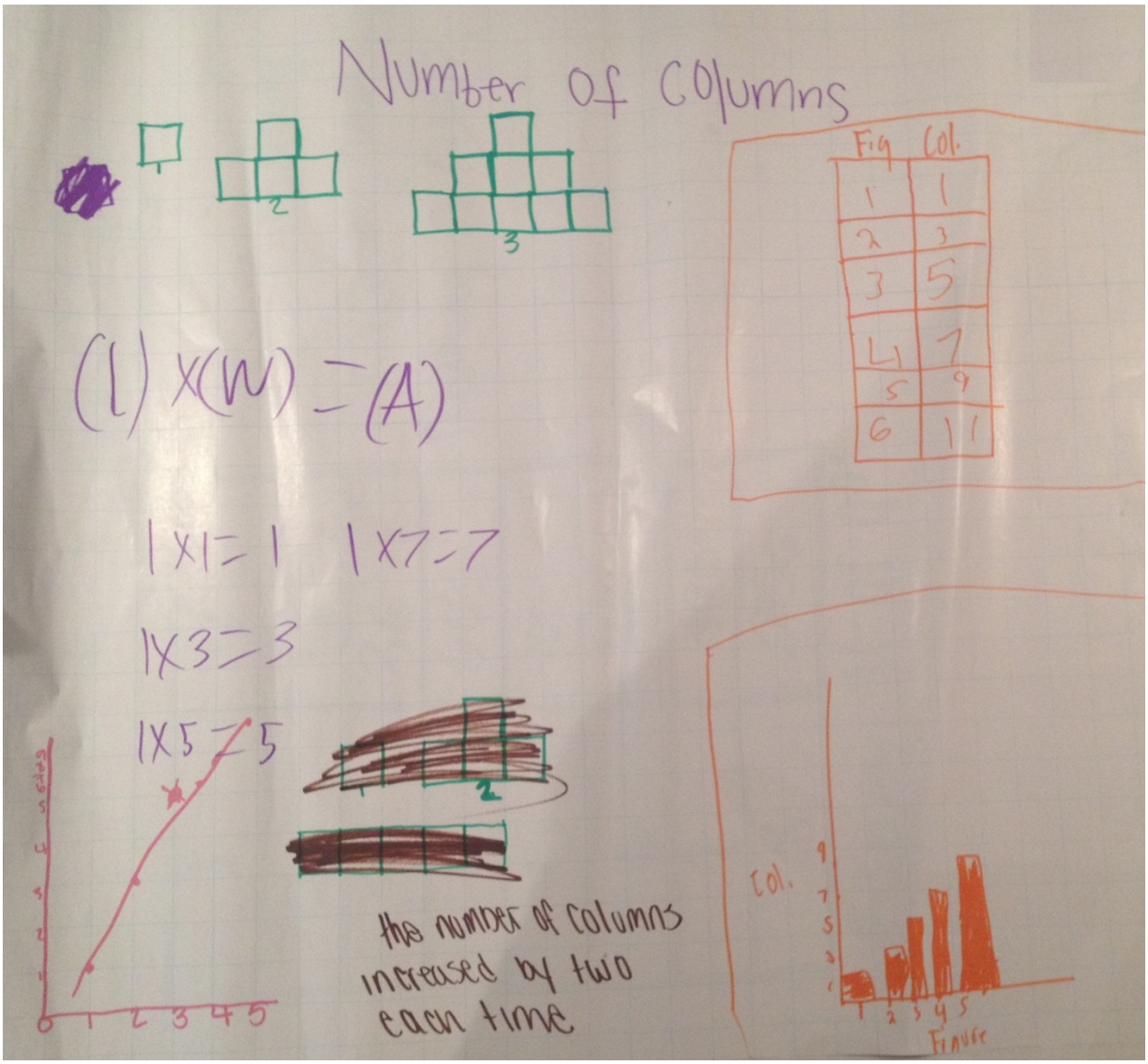
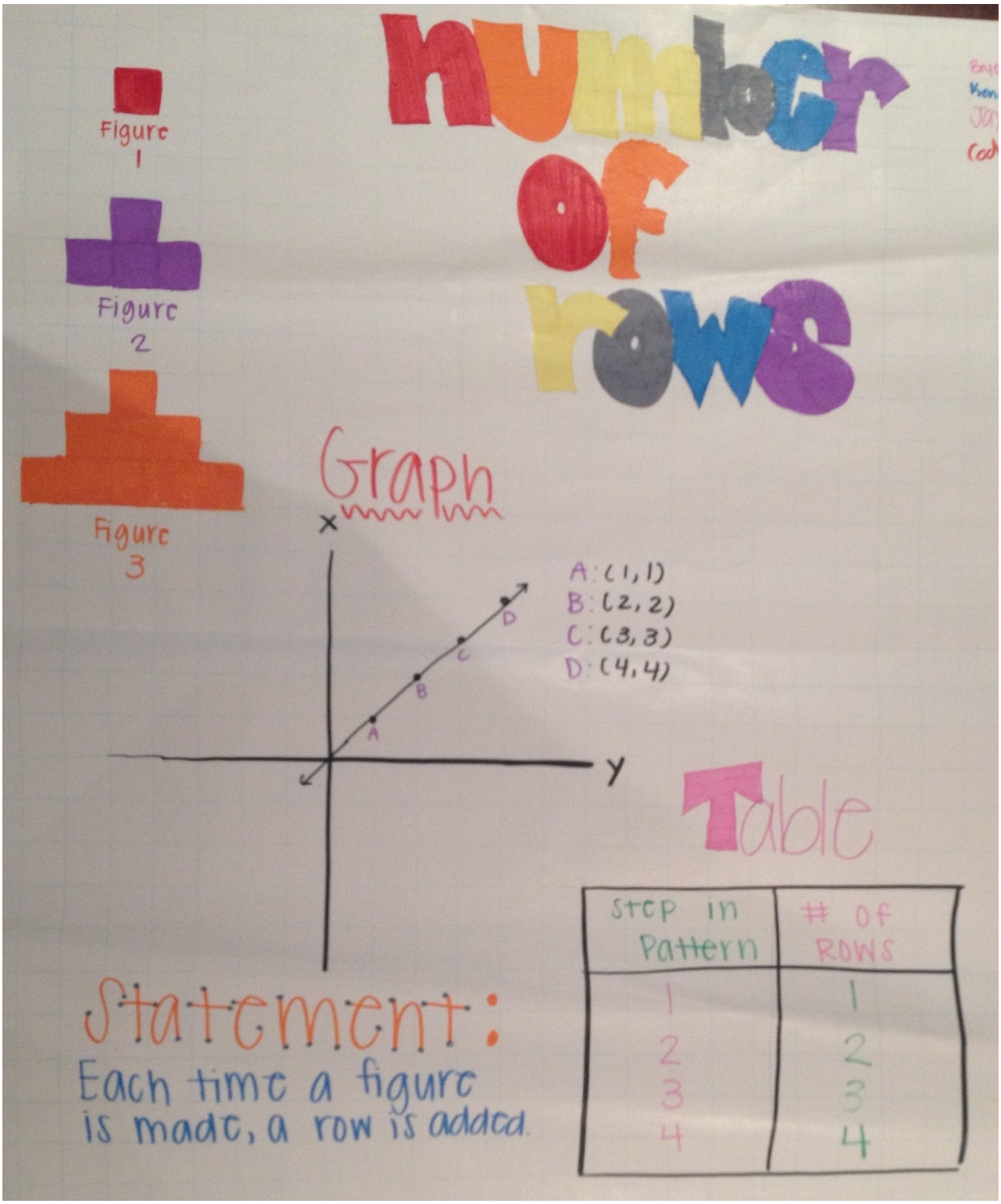
Student Work on Preliminary Task

STUDENT A



Student Work on Preliminary Task

STUDENT B



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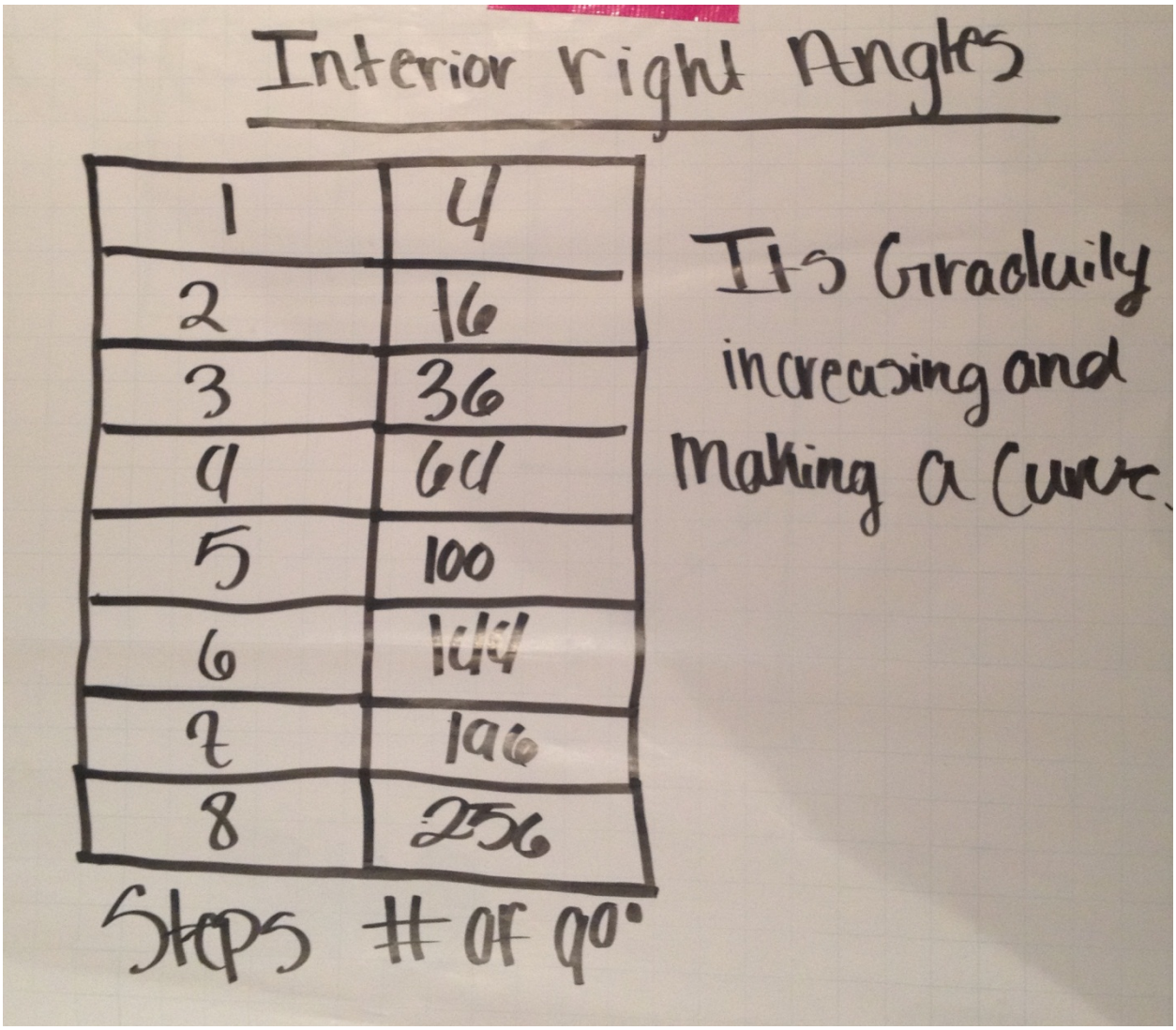
STUDENT C



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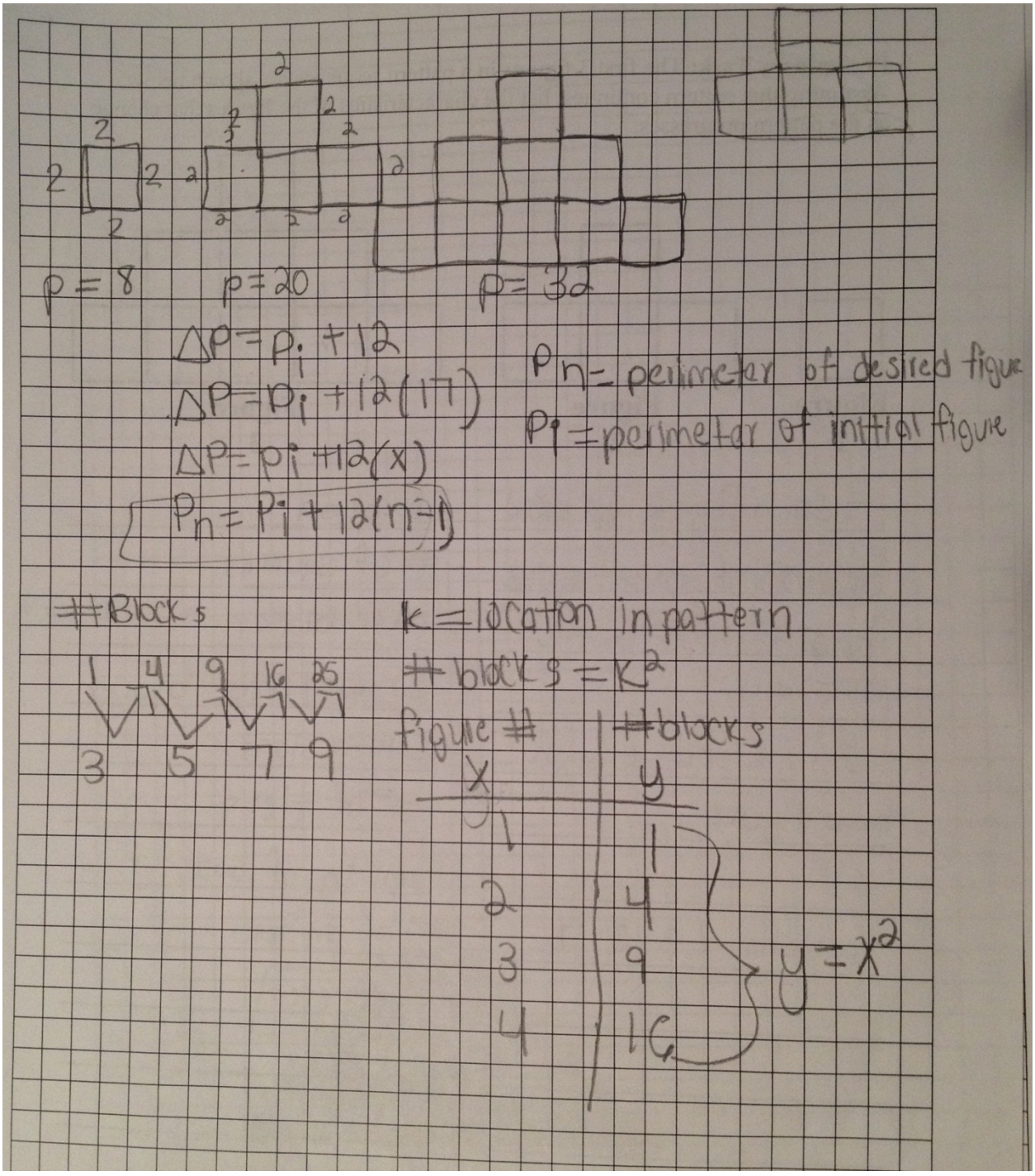
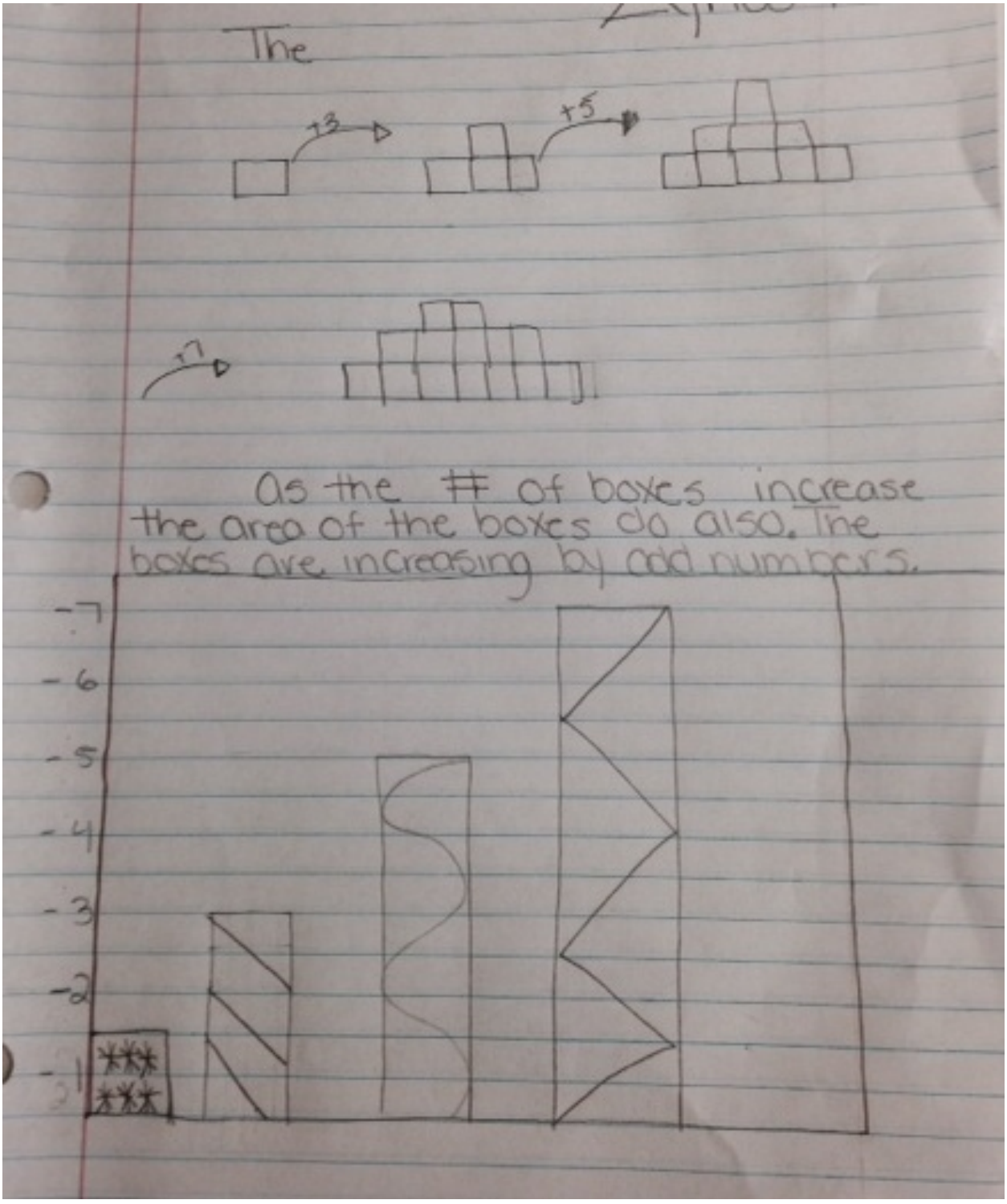
STUDENT D



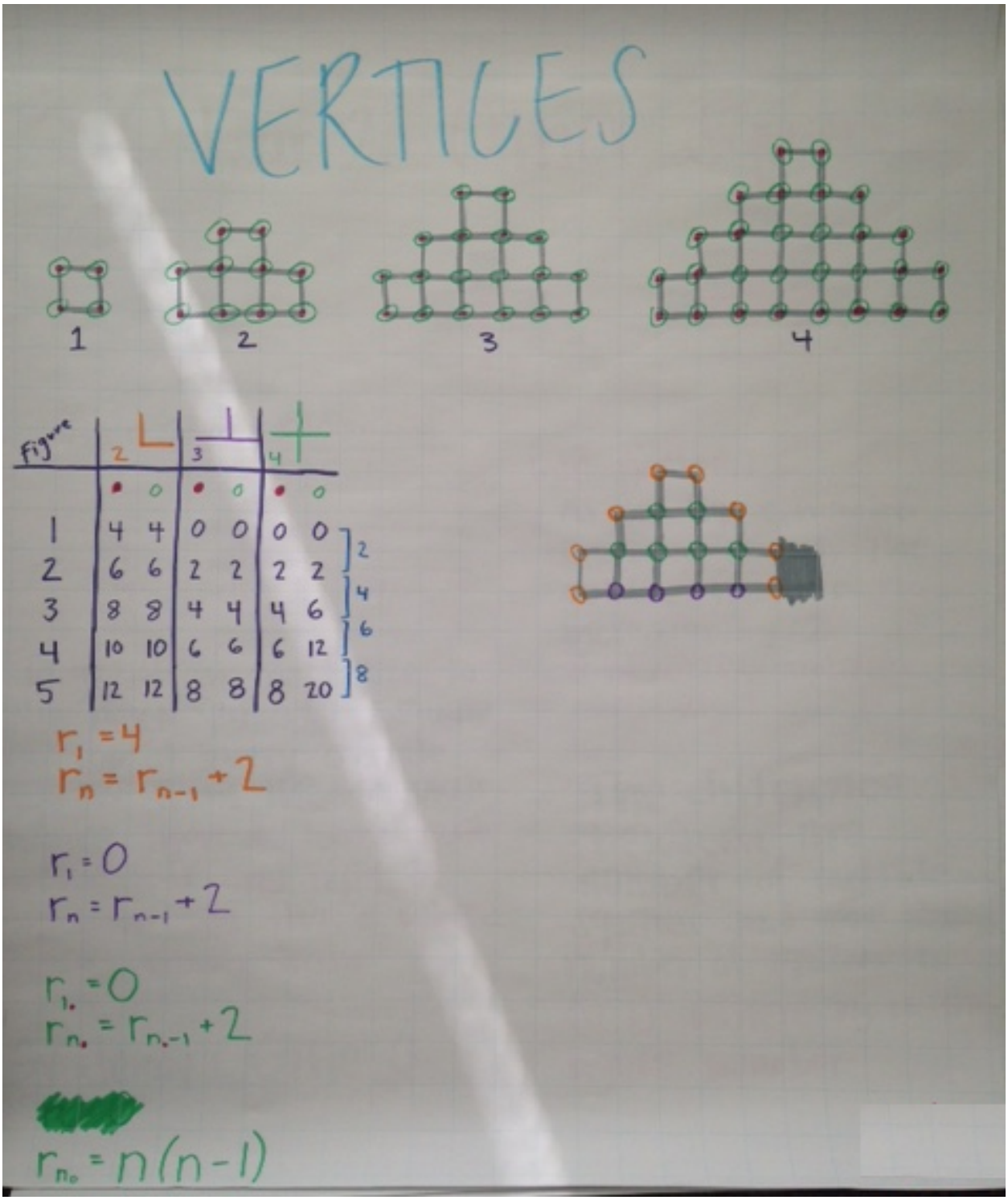
Student Work on Preliminary Task

STUDENT E

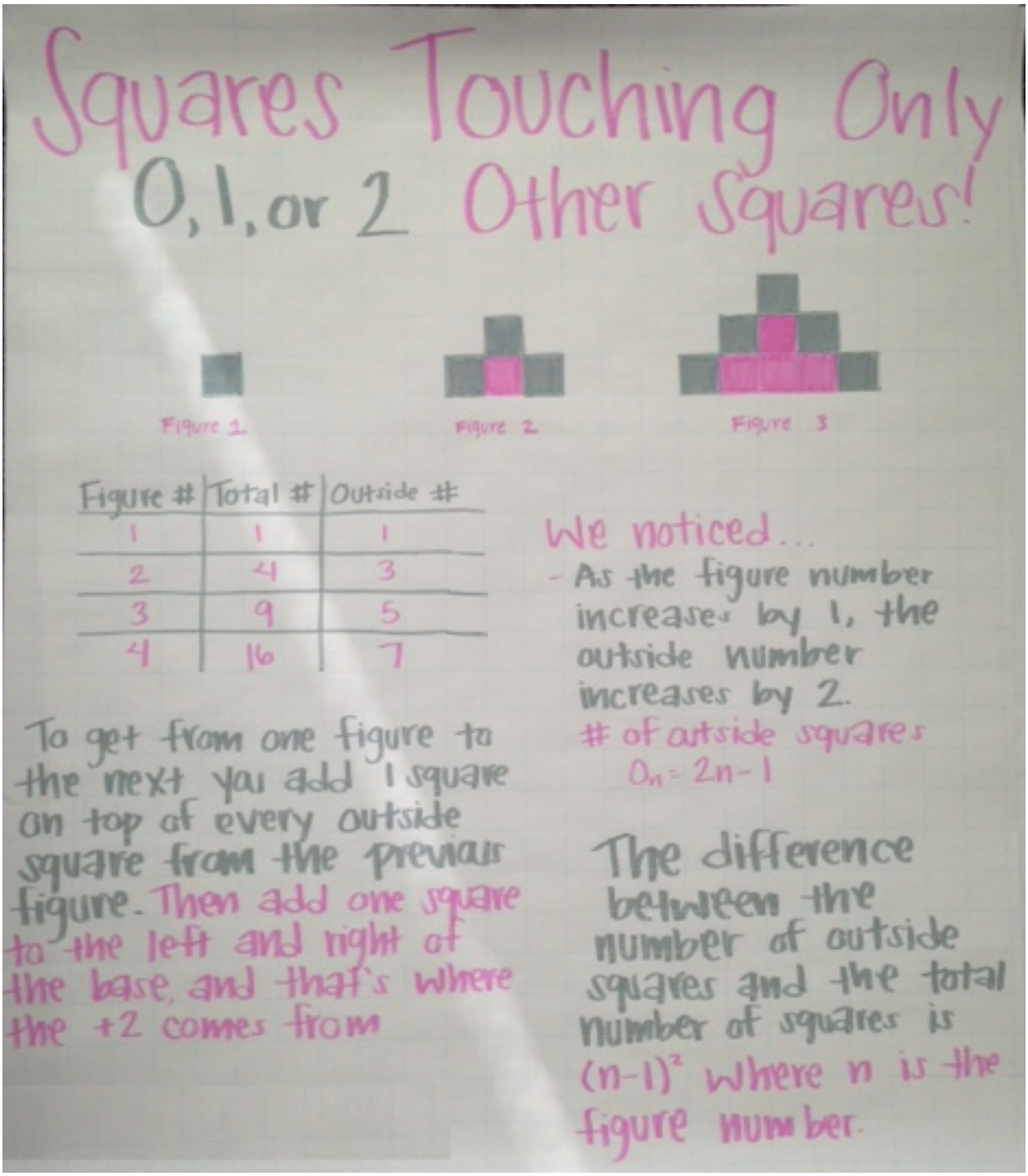


Student Work on Preliminary Task

STUDENT F

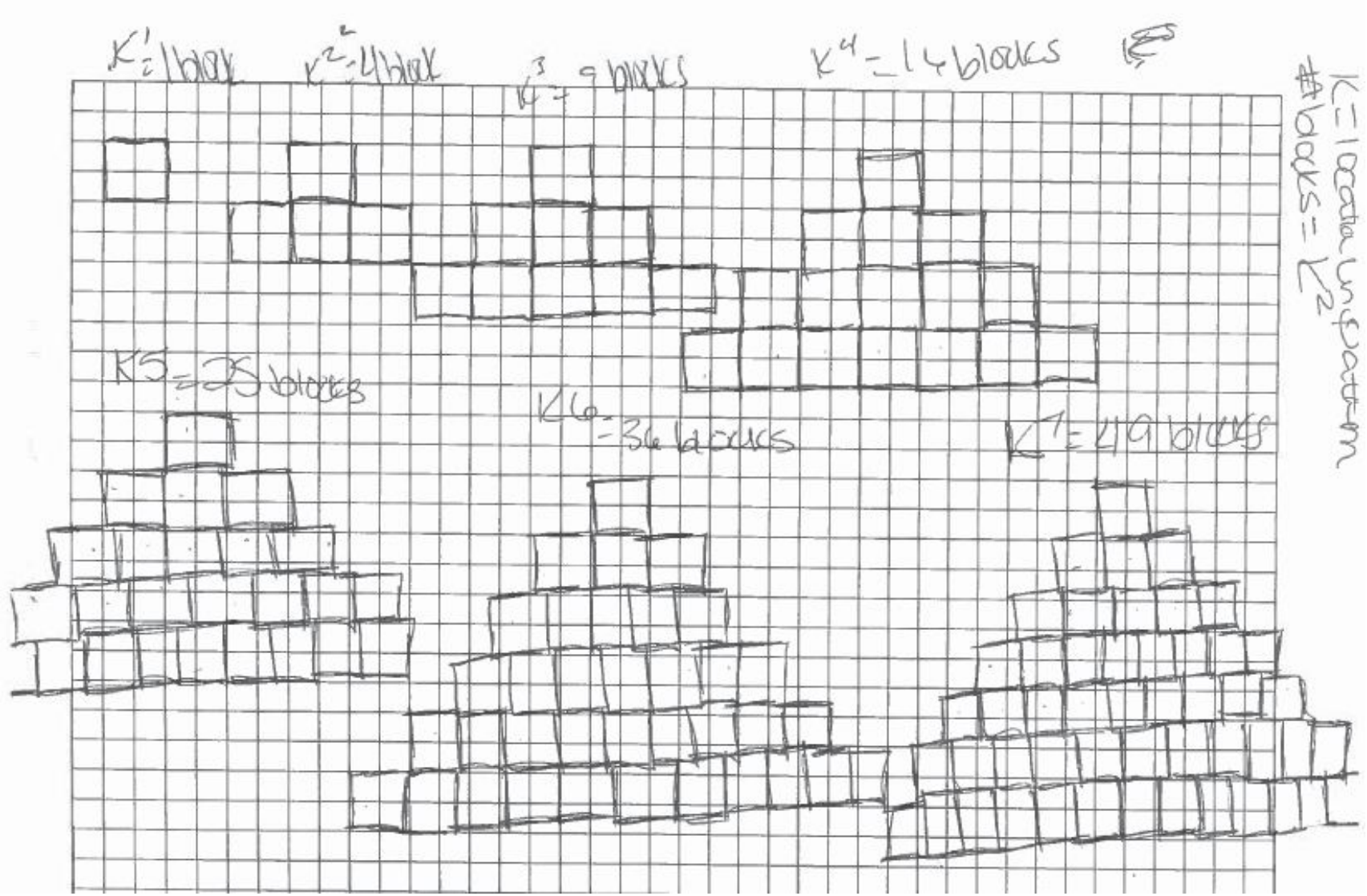


STUDENT G


Squares Touching Only
0, 1, or 2 Other Squares!
Figure 1
Figure 2
Figure 3
Figure # | Total # | Outside #
1 | 1 | 1
2 | 4 | 3
3 | 9 | 5
4 | 16 | 7
We noticed...
- As the figure number increases by 1, the outside number increases by 2.
# of outside squares
$O_n = 2n - 1$
To get from one figure to the next you add 1 square on top of every outside square from the previous figure. Then add one square to the left and right of the base, and that's where the +2 comes from
The difference between the number of outside squares and the total number of squares is $(n-1)^2$ where n is the figure number.

Student Work on Preliminary Task

STUDENT H



Student Work on Preliminary Task

STUDENT I