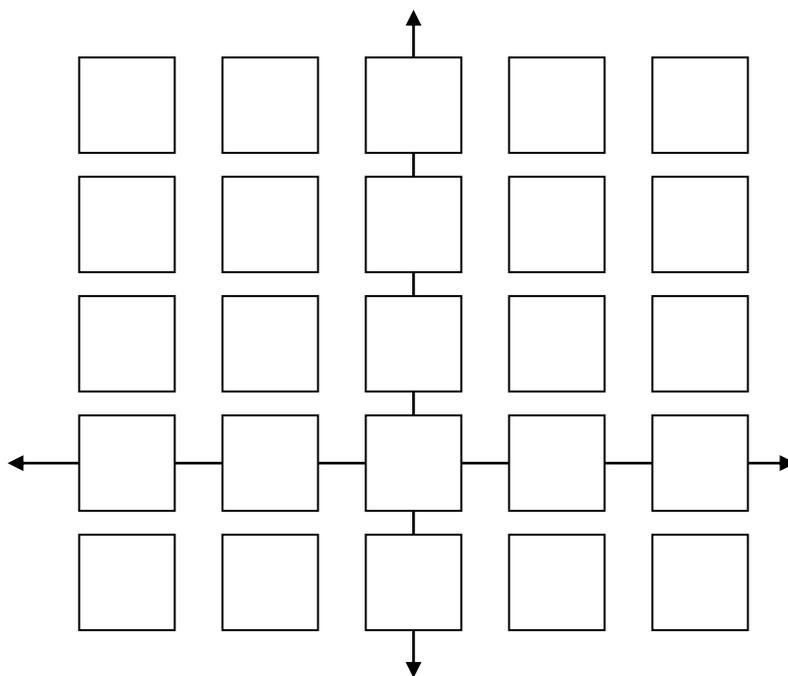


Can you fill in the first initial of each student in this math teacher's seating chart using only the clues below?

**CLUES:**

1. All students are located at integral coordinates in the xy -plane. The x -coordinates belong to the set $\{-2, -1, 0, 1, 2\}$, and the y -coordinates belong to the set $\{-1, 0, 1, 2, 3\}$.
2. Abel is seated on the line whose slope is -2 and passes through the point $(-1, 1)$.
3. Brahmagupta is seated on the line passing through $(4, 2)$ and $(-5, -1)$.
4. Point M is the midpoint of segment XY . Point M has coordinates $(4, -4)$ and point X has coordinates $(8, -7)$. Cantor is seated at point Y .
5. Descartes is seated on the line $3y - 2x = 4$.
6. Euclid sits on the line that passes through $(-4, 1)$ and is parallel to the line $x + 2y = 10$.
7. Fermat is seated on the line with slope zero and y -intercept one.
8. Gauss is seated on the line whose x -intercept is $(3, 0)$ and y -intercept is $\left(0, \frac{3}{2}\right)$.
9. Hardy sits at the intersection of $x + 4y = 4$ and $2x - 3y = -3$.
10. Jacobi is located at the midpoint of the segment joining $(3, -6)$ and $(-5, 8)$.
11. Klein sits on the line that passes through $(-6, -4)$ and is perpendicular to $y = \frac{-4}{3}x + 7$.
12. Laplace sits on the line $\frac{x}{2} - \frac{y}{2} = 1$.
13. Mandelbrot is seated at a distance of five units from Euclid.
14. Newton sits on the line $x = 2$.
15. Pythagoras is located at the x -intercept of the line $y = x - 2$.
16. Riemann sits on the line that passes through $(12, 7)$ and is parallel to $y = \frac{1}{2}x - \frac{4}{3}$.
17. Saccheri sits on the line passing through the point $(98, 9)$ and having slope $m = \frac{2}{25}$.

18. Taylor sits on the line where each abscissa is five times the corresponding ordinate.
 19. Venn sits on the line with slope zero and y-intercept zero.
 20. Weil sits on the line that passes through (11, 10) and is perpendicular to the line $y = -x + 1$.
 21. Zeno sits at a point that is equidistant from Jacobi and Laplace.
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CLUE Worksheet

For each problem, write down all possible answers from the given domain and range.

CLUE	NAME	Possible Ordered Pairs
1		
2	Abel	
3	Brahmagupta	
4	Cantor	
5	Descartes	
6	Euclid	
7	Fermat	
8	Gauss	
9	Hardy	
10	Jacobi	
11	Klein	
12	Laplace	
13	Mandelbrot	
14	Newton	
15	Pythagoras	
16	Riemann	
17	Saccheri	
18	Taylor	
19	Venn	
20	Weil	
21	Zeno	