Hollow Integer Grid

1. An Integer Grid

An integer grid is a grid or graph that shows horizontal and vertical number lines, with integers marked on both axes.

It helps us locate and understand integers visually, especially positive and negative numbers.

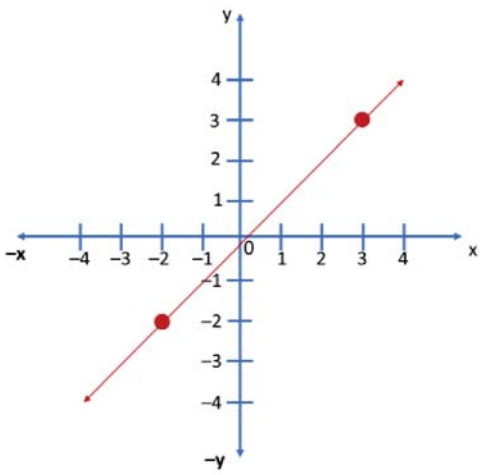
2. Hollow Integer Grid

A hollow integer grid is a type of grid that has only the outlines of squares or positions where integers are placed.

It helps students identify, mark, and compare integers, especially on both positive and negative sides.

3. Use a Hollow Integer Grid

- Horizontal line = x-axis (left = negative, right = positive)
- Vertical line = y-axis (down = negative, up = positive)
- The center (0, 0) is called the origin



Example:

Point (3, −2) means:

- Move 3 steps to the right on the x-axis
- Move 2 steps down on the y-axis

4. Real-Life Use

- Understanding positioning on a map
- Locating points in a graph
- Learning about quadrants in later classes

5. Properties of a Hollow Integer Grid

i. Helps visualize integers on both axes

ii. Used to plot points with positive and negative values

iii. Each point is written in (x, y) form

iv. The grid is hollow (empty boxes) for students to fill or mark positions

v. Makes learning about integers interactive and visual

6. Summary:

- Hollow integer grid = empty grid with horizontal and vertical number lines
- Used to plot and compare integers visually
- Center is called origin (0, 0)
- Useful in locating points and understanding coordinates

Example: (−2, 4) means 2 steps left, 4 steps up