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What is Coordinates

Unlocking the World of Coordinates for Kids!

DEFINITION

Coordinates are pairs of numbers that help us find exact locations on a grid. They tell us how far to go up/down and left/right.

KEY CONCEPTS

X-axis

The horizontal line on a grid where we measure left and right.

Y-axis

The vertical line on a grid where we measure up and down.

Origin Point

The starting point of the grid, where the X and Y axes intersect, marked as (0,0).

Ordered Pair

A set of two numbers written as (X, Y) that shows a specific location.

Quadrants

The four sections of the grid created by the X and Y axes.

EXAMPLES

- The point (3, 2) is 3 units right and 2 units up.
- The point (-1, -4) is 1 unit left and 4 units down.
- The origin point is (0, 0) where both axes meet.

MEMORY TIPS

- ★ Remember 'X comes before Y' to recall the order in ordered pairs.
- ★ Think of the grid as a treasure map where coordinates are the treasure's location.
- ★ Use 'up/down' for Y and 'left/right' for X to remember their directions.

COMMON MISTAKES

- ✗ Mixing up the X and Y values when writing coordinates.
- ✗ Forgetting to count negative directions on the grid.
- ✗ Confusing the quadrants and their signs.

QUICK RECAP

Coordinates are essential for locating points on a grid using pairs of numbers. Remember the X-axis is horizontal and the Y-axis is vertical, and practice identifying points in different quadrants.