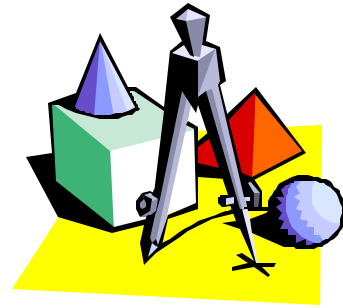


Algebra/Geometry Institute Summer 2003

Lesson Plan II

Faculty Name: Bobbie J. Griffin
School: George H. Oliver Elementary
City: Clarksdale, Mississippi
Grade Level: 6th Grade



1 Teaching objective(s)
Identify and plot points on a coordinate graph
Identify the x-axis and the y-axis

2 Instructional Activities

- Draw a number line on the overhead. Write the positive and negative numbers including zero on the line and discuss the number of units between two points on the line.

Example: How many units are between -2 and $+3$? What integer is four units to the left of -1 ? What integer is halfway between $+4$ and -2 ?

- Discuss the relationship between number lines and the axes of a coordinate grid. (The x-axis is a horizontal number line; the y-axis is a vertical number line. The two lines intersect at a point called the origin.)
- Draw a coordinate graph on the overhead (on grid paper). Plot points to show how to read the first number on the x-axis and the second number on the y-axis. Discuss the first number in the pair first.
- Students work in pairs to complete a graphing activity on grid paper. What point does each ordered pair name? A. (2, 3) B. (3, 2) C. (1, 5) D. (5,1) Name the coordinate pair for each letter. C, E, D, B, A
- In groups of 4 students discuss the intersection near the school with State Street being the x-axis and Ritchie Street being the y-axis plot major streets and buildings on grid paper to make a grid map of major businesses and their homes.
- In journals write a brief statement answering and supporting your answer to the questions: 1. Can a point be located at the origin? If so, what ordered pair would describe that point? (0) 2. In what way is coordinate graphing like reading a map? (Longitude and latitude).

3 Materials and Resources

Grid paper

Colored markers or crayon

Overhead

Graphing Activity

© 2001 Silver Burdett Ginn, Textbook: Mathematic the Path to Math Success, Grade 6
National Council of Teachers of Mathematics, Navigating Through Geometry

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Assessment

- Observation
- Self checking
- Journal writing
- Rubrics
- Teacher Evaluation