

# UPPER CUMBERLAND MIDDLE SCHOOL MATH PARTNERSHIP

## SESSION # 10 OUTLINE

**TITLE:** The Cartesian Coordinate System

**INSTRUCTOR:** Sheryl Webb

**STANDARDS:**

**GRADE LEVEL EXPECTATIONS:**

GLE 0606.3.6 Understand and use the Cartesian coordinate system.

**CHECKS FOR UNDERSTANDING:**

- ✓ 0606.3.10 Understand that in an ordered pair  $(x, y)$ , the  $x$  represents horizontal location and  $y$  represents vertical location.
- ✓ 0606.3.11 Identify the quadrant of the coordinate system in which a point lies.

**SPI's:**

SPI 0606.3.9 Graph ordered pairs of integers in all four quadrants of the Cartesian coordinate system.

**ACTIVITIES:** Participants will download two programs to their TI-84 calculators and use the programs to plot points and identify points. The participants will then play Line 'Em Up.

**INSTRUCTIONAL STRATEGIES MODELED:**

The instructor will guide the participants through the program downloads and provide instructions for the games. Assistance will be available to the participants while they play the games. The instructor will then distribute game cards and call out points to be plotted.

**TECHNOLOGY/MATERIALS USED:**

TI-84 graphing calculator/SmartView, TI graph link, laptop, internet, projector,

**WEBSITES:**

<http://illuminations.nctm.org/LessonDetail.aspx?id=L617>

**HANDOUTS ATTACHED:**

Line 'Em Up Activity Sheets