

Concept: Points on a Grid

Name:

COMPUTER COMPONENT

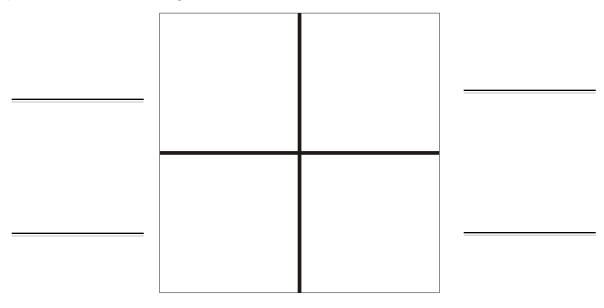
Instructions:	In LIMATH X follow the Content Menu path:	
	Graphing > Points on a Grid	
	Work through all Sub Lessons of the following Lessons is • Josh's Neighborhood • Grids on Maps • Ordered Pairs • Shapes • Battleship	in order:
Additional Re	quired Materials: Grid/Graph paper	
	As you work through COMPUTER COMPONENT , yo make notes in your notebook/math journal.	u will be prompted to
	ch the end of the section <i>Battleship</i> , record the amount of My time was	time it took you to sink
	Now leave the computer and move on to SUMMARY be	elow.
SUMMARY		
1. Showcase yo term.	our superior knowledge by filling in the spaces with the con	rrect 'graphing'
(a) Maps are div	rided into regions by	
(b) You can ide	ntify a particular region by giving a	and a
(c) Draw a sket	ch of:	
The Vertical Ax	xis:	
(another name f	For this is the axis)	
The <i>Horizontal</i>	'Axis:	
(another name f	For this is the axis)	





Where do the two axes intersect?

(d) Name/label each of the Quadrants.



Now, pick one point in each of the 4 quadrants and label each of the points as an ordered pair. *Check the location of the 4 points with a classmate*.

(e) The entire grid above is called The	•
(⇒It was named after Rene Descartes, its inventor!)	

(f) The_____ of the coordinates an ordered pair is **important**.

OFF COMPUTER EXERCISES

- 1. On a piece of grid paper in your notebook/math journal, draw the Cartesian Plane according to the following instructions:
- (a) The x-axis must have values, which range from -8 to 8
- (b) The y-axis must have values, which range from −12 to 12 (Don't forget to label each axis!)
- 2. Using the graph you created in #1, plot the following coordinates: (Don't forget to label each point with a letter!)

$$M(-1,1)$$

$$I(5, -10)$$

$$S(-6,11)$$

$$U(0, -9)$$

$$N(-7, -2)$$

$$H(-3, -12)$$

Recall the section on Shapes in the computer program. (Answers will vary.)





- 3. Design your own shape and write instructions for drawing the shape by joining specific points. *Give only the instructions to a classmate and have them draw the corresponding shape.*
- 4. Draw only the top right quadrant of the Cartesian Plane according to the following instructions:
- (a) The x-axis must have values, which range from 0 to 10
- (b) The y-axis must have values, which range from 0 to 10 (Don't forget to label each axis!)
- (c) Plot the point for each coordinate pair:

(d) What do you notice about the numbers in the coordinate pairs?

(e) What do you notice about the points plotted on the grid?

(f) Predict the coordinate pair of the next point in the pattern. Explain your reasoning.

