

TEKS Planning with Timetable TEKS

TEKS:

6.11(A) graph points in all four quadrants using ordered pairs of rational numbers

Big points to make:

- graph points in all four quadrants using ordered pairs of rational numbers
- identify the origin as the point with the coordinates (0,0)
- the order pair is the location from the origin
- identify the quadrant for ordered pair based on the signs of the coordinates

Sample questions:

Which ordered pair describes a point that is located 4 units to the left of the origin and 2 units below the x-axis?

F (4, 2)

G (-4, -2)

H (-4, 2)

J (4, -2)

Day 1: [Into song](#)

[Video](#)

1. Notes
2. Activity
 - Make a "human" sized coordinate graph by placing tape on the floor for the x and y axis. Label the quadrants. Have a student stand at the origin, tell them the ordered pair.
 - Then the student will tell you if they move left/right on the x-axis based on +/- and then if they go up/down on the y-axis based on +/-.
3. Activity M. Math Intro pg p263 w/ partner (some students can be pulled to complete at a teacher table)
4. Exit Ticket TE M. Math pg 363

Day 2/3 Stations

[Plotting point song](#)

Create Anchor chart

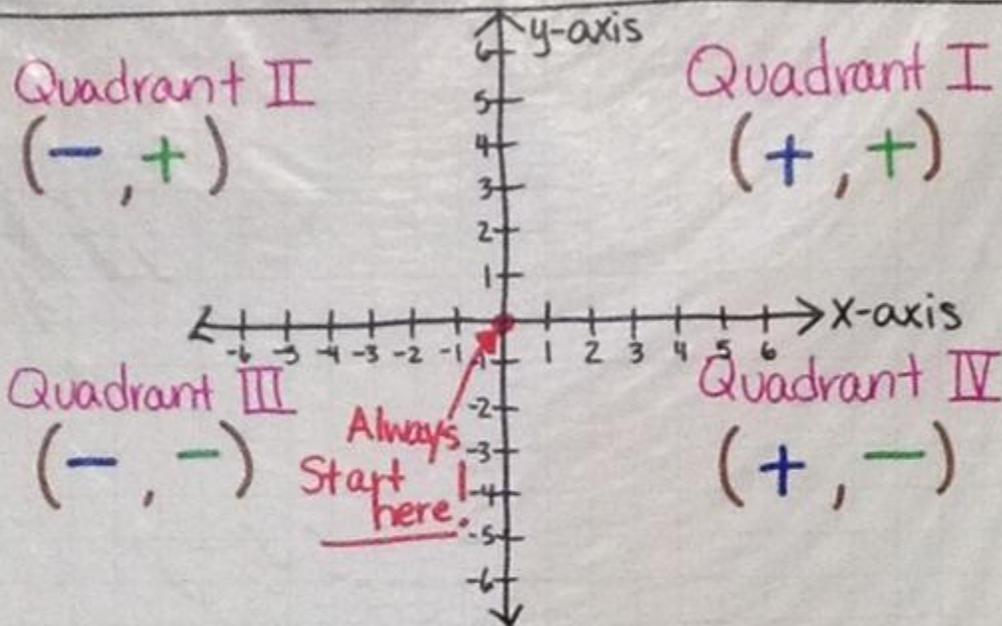
Station Purpose:

1. Graph points (including fractions and decimals)
2. Identify quadrants and coordinates
3. Application in word problems
4. Spiral (students still need to practice rational number operations to prepare for solving equation in the 4th Instructional

*Good Formative Assessment- TE M. Math p363 (true/false) could use white boards

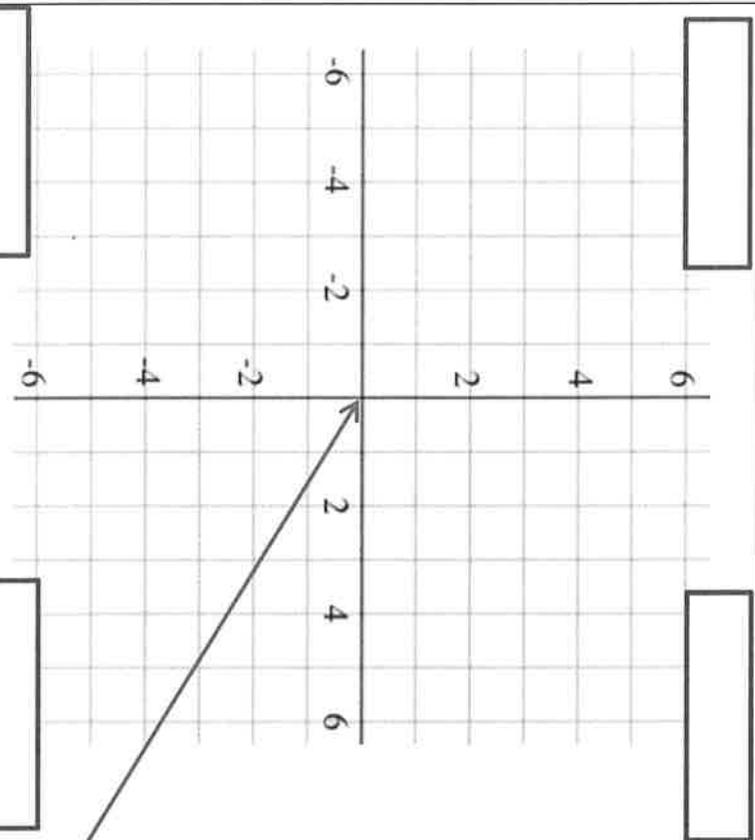
Stations Activity Options			
Graph Points	Identify Quadrant and Coordinates	Teacher Table Application in word problems	Spiral Options
M. Math p 263 M. Math p 269 EM p22-23	Quadrant sort What are the coordinates	M.Math p 264 M. Math p 265	<ul style="list-style-type: none">• Integer operation (will be on CBA again)• Order of Operations• Ratio/rates/Percent (will help with 6.5a)
*EM=Engaging Math II *M.Math= Motivation Math *G- Google Drive Other videos https://www.youtube.com/watch?v=Tcd4DT0j8r0&t=2s			

Coordinate Plane



Ordered Pair $\rightarrow (x, y)$

- ① Start at the origin.
- ② Move over x units to the left or right.
- ③ Move y units up or down.
- ④ MARK YOUR POINT.



Coordinate Plane
Graphing points

- | Plot | Quadrant |
|------------|----------|
| A (3, 3) | _____ |
| B (-3, -3) | _____ |
| C (5, -5) | _____ |
| D (-5, 5) | _____ |
| E (0, -2) | _____ |
| F (2, 0) | _____ |

_____ the horizontal line on a coordinate plane where points are plotted moving left and right.

_____ the vertical line on a coordinate plane where points are plotted moving up and down.

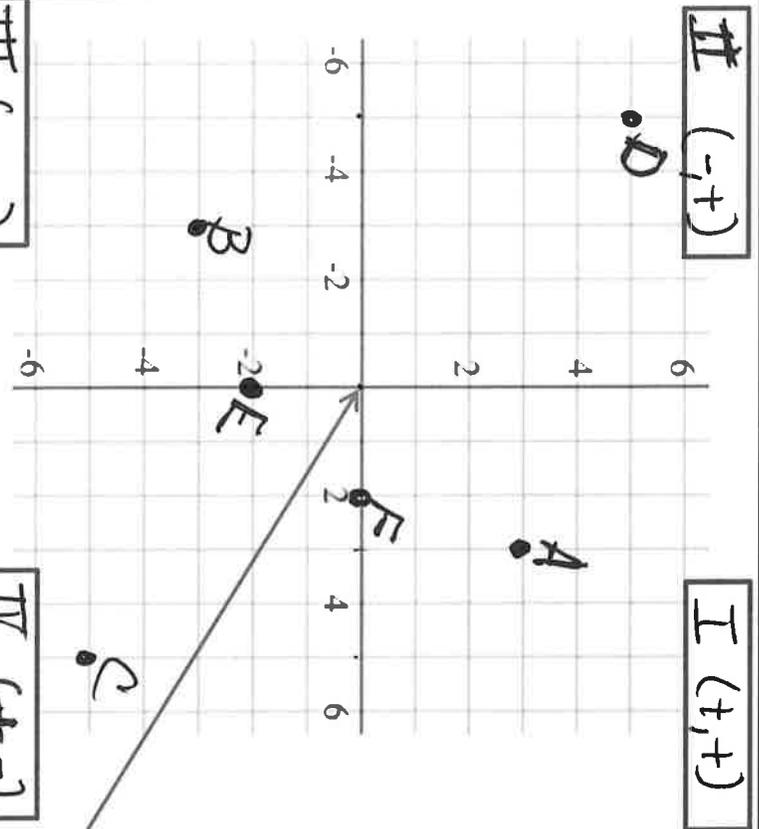
_____ a point identified by an x and y coordinate as a pair.

_____ the four sections of the coordinate plane divided by the x and y axis.

_____ the point at the center of the coordinate plane noted as (0,0).

How to graph points?

(,)



- Plot**
- A (3, 3)
 - B (-3, -3)
 - C (5, -5)
 - D (-5, 5)
 - E (0, -2)
 - F (2, 0)
- Quadrant**
- 1
 - 2
 - 3
 - 4
- on Y axis
on X axis

X-axis the horizontal line on a coordinate plane where points are plotted moving left and right.

Y-axis the vertical line on a coordinate plane where points are plotted moving up and down.

Ordered Pair a point identified by an x and y coordinate as a pair.

Quadrant the four sections of the coordinate plane divided by the x and y axis.

Origin the point at the center of the coordinate plane noted as (0,0).

How to graph points?

(←→ , ↓↑)
left/right, up/down

Coordinate Plane
Graphing points