## Graphing

## Ordered Pairs

6.NS.6.2 I can place (graph) ordered pairs in all four quadrants of the coordinate plane.

## Flashback

1) What is the mean of the following data set?
2) What is the Range of the following set of numbers?
$98,208,189,94,117$
a) 141.2
b) 99.6
c) 176.5
a) 164
d) 147.25
b) 165.6
c) 99
d) 166
3) The following lists the height in inches of seven Boyle County Rebels basketball players:
Player 1: 73 in
4) What is the median of the following set of numbers:

Player 2: 77 in
$57,71,66,50,74,55,62,77$
Player 3: 80 in
a) 62

Player 4: 86 in
b) 57
c) 64
d) 59.5

Player 6: 84 in
Player 7: 81 in
What is the mode height on the basketball team?
a) 77 in
b) 86 in
c) 13 in
d) 79.7 in

## The Boy who invented the coordinate plane Renes' Descartes

## Today's Lesson

I can graph ordered pairs on the coordinate plane.
Lesson Notes - vocabulary

# Coordinate plane_: The plane formed by 

 two perpendicular lines called the $x$-axis and $y$-axis.The coordinate plane is divided into four regions. Each region is called a Quadrant.
$X$ - $A x$ is : the horizontal number line.

Lesson Notes - vocabulary

## Y- Axis :the vertical

 number line.

Ordered Pair: a pair of numbers that represent a unique point in the coordinate plane. Remember, taXi before you fIY.

## Lesson Notes - vocabulary

Origin : the center of the coordinate plane. It has coordinates $(0,0)$ It is the point we always start when we are graphing.

To graph a point in the coordinate plane, start at the origin. Look first at the $x$ coordinate. If the $x$-coordinate is positive, move that many spaces to the $r$ ight. If the x coordinate is negative, move that many spaces to the left. From your xcoordinate location, look at the y-coordinate. If the $y$ coordinate is positive, go UP that many spaces. If the $y$ coordinate is negative, go down that many spaces.

## Coordinate Pair <br> XAxis <br>  <br> Y Axis <br> 

## Watch Me


Go to 3 on the $X$ Axis and up to 2
on the $Y$ Axis.
Where they meet is where
you pufthe point

## Coordinate Pair



XAxis
B)

Y Axis

Watch Me

Go to- -1 on the X Axis and up to 5 on the Y Axis.
Where they meet is where you pufthe point

## Coordinate Pair $(-10)$ <br> X Axis <br> Y Axis



## Practice

## Graph the points

 on your coordinate plane with A $(0,2)$.You can graph B
( $4,-3$ ), C ( $-2,-1$ ), D
$(2,3), E(2,0)$, and $F(-5,3)$.

## Practice

##  <br> Name the <br> Quadrant: <br> $(0,2)$ : y-axis <br> $(4,-3)$ IV <br> (-2, -1): III <br> $(2,3)$ : I <br> $(2,0)$ : $x$-axis $(-5,3)$ : II

## Graphing Ordered Pairs Races

Toclay to introcluce graphing ordered pairs we will be racing to graph ordered pairs on the coordinate plane taped on the floor.

- Each student will be placed on a team.
- You will be given a number
- When you number is called, you will be given a ordered pair.
- The first person to find the point of the order pair gets points for their team.


## Graphing Ordered Pairs Races

Each person will get a coordinate plane. Laloel this paper, Craphing Races

## Put your name on ift

When you are not racing, you will graph on the ordered pair on the screen on your coordinate plane at your clesk.

Team members not plotting the points on their own paper will lose points for their team.

| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(-3,2)$ | $(-7,-9)$ |


| Coordinate Pair |  |  |
| :---: | :---: | :---: |
| Team 1 | Team 2 |  |
| $(2,2)$ | $(8,-7)$ |  |


| Coordinate Pair |  |  |
| :---: | :---: | :---: |
| Team 1 | Team 2 |  |
| $(0,7)$ | $(0,-10)$ |  |


| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(-3,-7)$ | $(2,8)$ |


| Coordinate Pair |  |  |
| :---: | :---: | :---: |
| Team 1 | Team 2 |  |
| $(-1,5)$ | $(-4,-6)$ |  |


| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(-10,3)$ | $(10,3)$ |


| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(4,6)$ | $(9,-2)$ |


| Coordinate Pair |  |  |
| :---: | :---: | :---: |
| Team 1 | Team 2 |  |
| $(6,2)$ | $(-4,3)$ |  |


| Coordinate Pair |  |  |
| :---: | :---: | :---: |
| Team 1 | Team 2 |  |
| $(-2,3)$ | $(-7,-2)$ |  |


| Coordinate Pair |
| :---: |
| Team 1 |
| $(10,10)(-10,9)$ |

## Coordinate Pair

## Team 1

## Team 2

## (3)



( 8 )S

| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(10,-2)$ | $(-9,3)$ |


| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(8,4)$ | $(-3,9)$ |


| Coordinate Pair |  |
| :---: | :---: |
| Team 1 | Team 2 |
| $(6,-4)$ | $(-8,1)$ |

Time for an Exit Slip!
Ican recognize (find) ordered pairs in all four quadrants of the coordinate pla

