雙語教學主題(國中七年級教材):介紹座標平面

Topic: introducing coordinate plane

下面是這個單元需要用到的單字

Here are some of the words we will use in the class

number line horizontal line

vertical line origin 原點

x axis y axis

unit quadrant 象限

plot ordered pair 數對

perpendicular intersect

coordinate plane 座標平面 x-coordinate

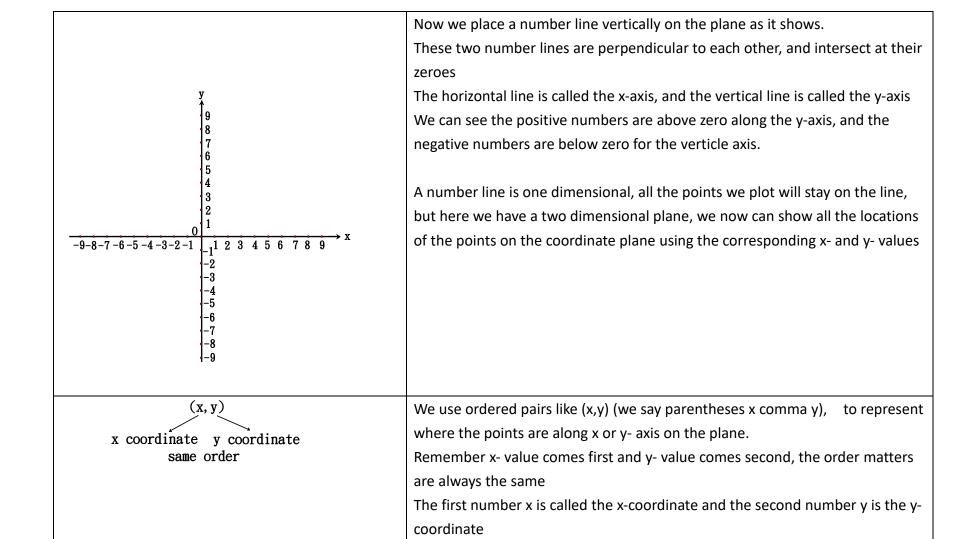
y- coordinate dimension 維度

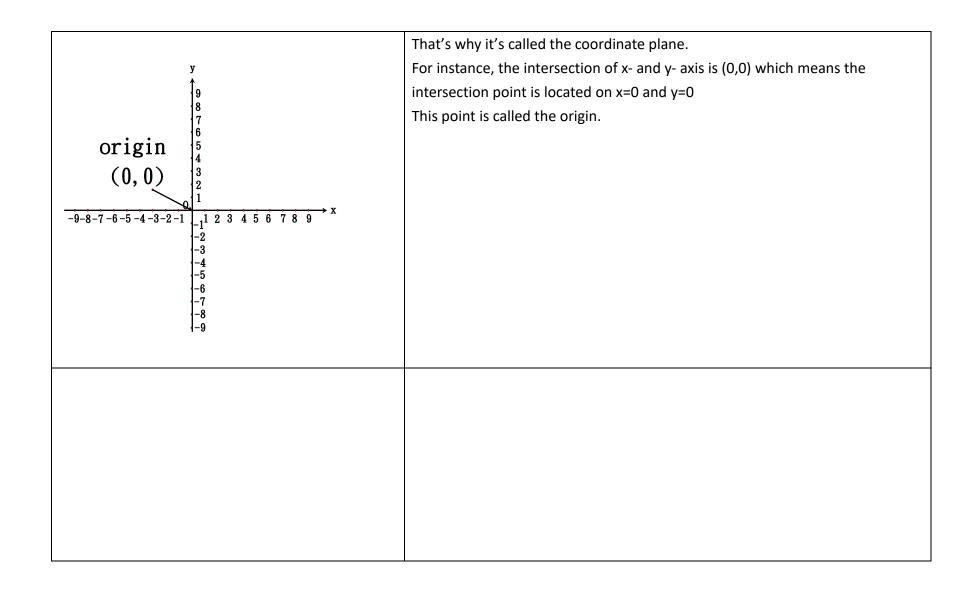
-9-8-7-6-5-4-3-2-10 1 2 3 4 5 6 7 8 9

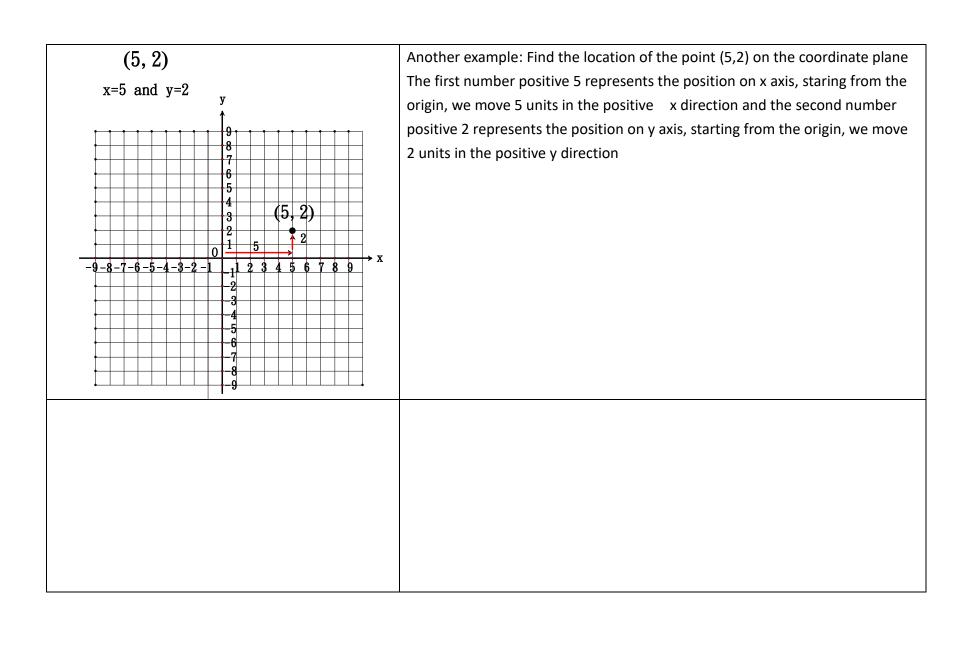
Before we introduce the coordinate plane, let's review "number line" we learned

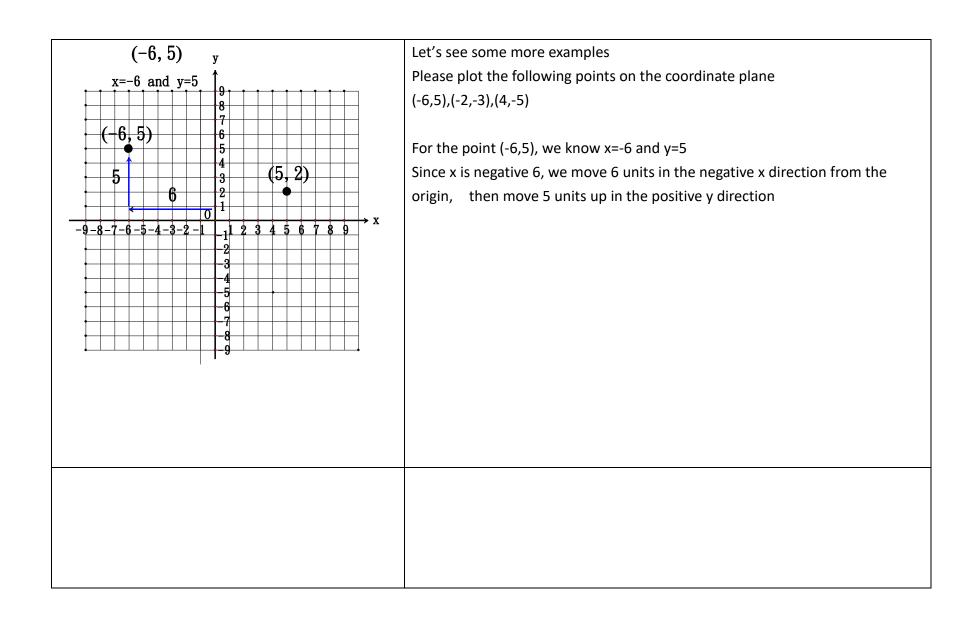
A number line is a horizontal straight line_with numbers placed at equal intervals or segments along its length. The numbers on the number line increase as one moves from left to right and decrease on moving from right to left.

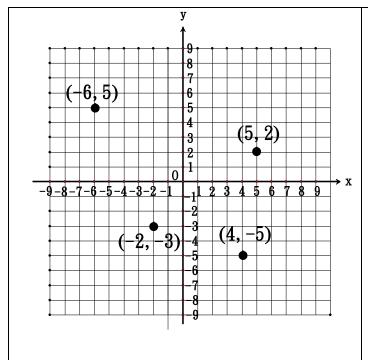
A unit is the distance between every 2 consecutive integers.









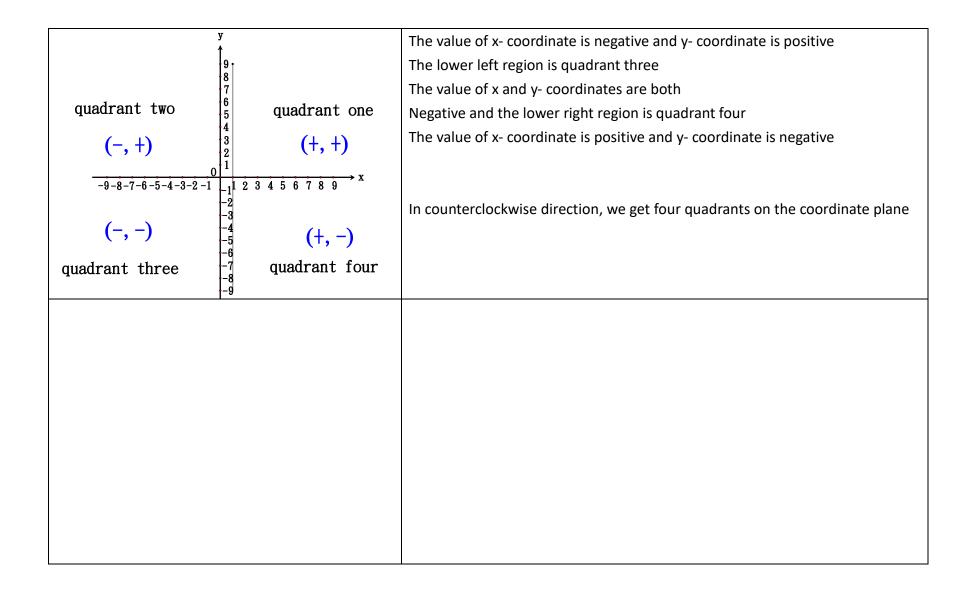


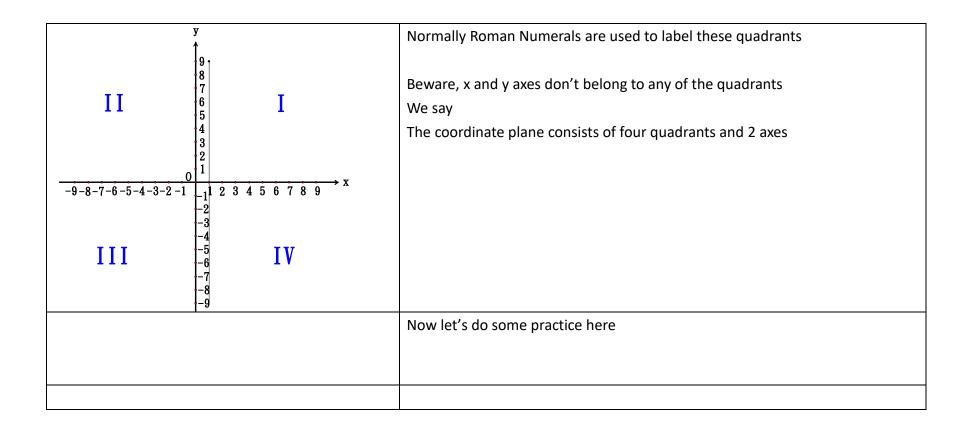
When we finish plotting the points above, we get the location of these 4 points on the coordinate plane

These points locate in different regions of the coordinate plane We name these regions quadrants

The upper right region is quadrant one
The value of x- and y- coordinates are both
Positive

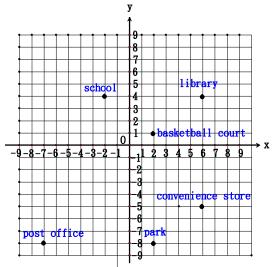
The upper left region is quadrant two





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1. Please find out all the x, y- coordinates for the location of the school, the baseketball court, the post office, the park, the library and the convenience store



Ans:

School:_____ library:____ park:____ post office:_____ basketball court:_____

convenience store:

- 3. Are the convenience store and the park in the
- 2. What quadrant is the school in?_____

We take the location of the school as an example Starting from the origin, we move 2 units left to negative 2 on the x axis, then move up 4 units to the school, so the x, y- coordinates of the school is (-2,4) We say it's negative 2 comma 4

Ans:

School: <u>(-2,4)</u> library: <u>(6,4)</u> park: <u>(2,-8)</u> post office: <u>(-7,-8)</u> basketball court: (2,1) convenience store: (6,-5)

- 2. What quadrant is the school in? The schpp; is in the second quadrant
- 3. Are the convenience store and the park in the second quadrant? (yes or no? If no, please write down the correct answer)

No, they are in the fourth quadrant

second quadrant?	
(yes or no? If no, please write down the correct	
answer)	

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