

# Mathematics

## Quarter 1 – Module 6:

### Illustrating a Rectangular Coordinate System



**Mathematics – Grade 8**  
**Alternative Delivery Mode**  
**Quarter 1 – Module 6 Illustrating a Rectangular Coordinate System**  
**First Edition, 2020**

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**8**

**Mathematics  
Quarter 1 – Module 6:  
“Illustrating a  
Rectangular Coordinate  
System”**





## **What I Need to Know**

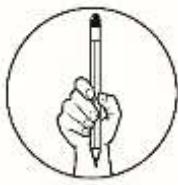
This module was designed and written for you to answer the activity you've missed while you are away from school. It is here to help you master rectangular coordinate system and its uses. The scope of this module permits it to be used in many different learning situations. The language used recognizes your diversity and diverse vocabulary level. The lessons are arranged to follow the standard sequence of the course. But the order in which you read them can be changed to correspond with the textbook you are now using.

This module contains:

Lesson 1- The Rectangular Coordinate System

After going through this module, you are expected to:

1. define the Rectangular Coordinate System and other related terms;
2. plot the point on a coordinate plane;
3. give the coordinates of a given point on a coordinate plane; and
4. use the concepts of coordinate plane in solving real-life problems.



## What I Know

Directions: Choose the letter of the correct answer and write it on your answer sheet.

1. What is a Rectangular Coordinate System?
  - A. It is a coordinate system that is used for naming points in a plane.
  - B. It is a coordinate system that is used for graphing linear functions.
  - C. It is a coordinate system that is used to determine the location of a point by using a single number.
  - D. It is a coordinate system that is composed of two perpendicular number lines that meet at a point of origin.
2. How many quadrants does a Rectangular Coordinate System have?

A. 2	C. 6
B. 4	D. 8
3. Which among these mathematicians was the Cartesian Plane named after?

A. Euclid	C. Blaise Pascal
B. Pythagoras	D. Rene Descartes
4. What do you call the vertical number line in the Cartesian plane?

A. y-axis	C. origin
B. x-axis	D. quadrant
5. For the coordinates of the point in quadrant IV, the x-value and y-value are always \_\_\_\_\_ and \_\_\_\_\_, respectively.

A. negative, positive	C. positive, negative
B. negative, negative	D. positive, positive
6. The coordinates of the origin in the coordinate plane are \_\_\_\_\_.

A. (0,1)	C. (0,0)
B. (1,0)	D. (1,1)
7. Point (3, 4) is an example of \_\_\_\_\_.

A. an abscissa	C. an ordinate
B. an ordered pair	D. a point of origin

8. Which of the following is true about the point  $(8, 1)$ ?
- It lies in Quadrant I.
  - It lies in Quadrant II.
  - It lies in both Quadrant II and III.
  - Both statements A and C are correct.

For numbers 9-12, use Figure 1 on the right.

9. Which of the following is true about the points in *Figure 1*?
- Point D lies in the  $y$ -axis.
  - Point C has all positive coordinates.
  - Point G has all negative coordinates.
  - Points A and B are located in Quadrant III.

10. Which point lies in the origin?
- |      |      |
|------|------|
| A. D | C. F |
| B. E | D. H |

11. Which points lie in Quadrant II?
- |         |         |
|---------|---------|
| A. A, B | C. D, G |
| B. C, D | D. E, H |

12. Which of the following illustrates the coordinates of point G?
- |               |              |
|---------------|--------------|
| A. $(-7, 8)$  | C. $(-8, 7)$ |
| B. $(-8, -7)$ | D. $(8, -7)$ |

For items 13-15, refer to Figure 2.

13. At what location is the butterfly located?
- |               |               |
|---------------|---------------|
| A. $(5, 6)$   | C. $(6, 5)$   |
| B. $(-5, -6)$ | D. $(-6, -5)$ |
14. The ant is located at what quadrant?
- |                |                 |
|----------------|-----------------|
| A. Quadrant I  | C. Quadrant III |
| B. Quadrant II | D. Quadrant IV  |
15. Which of the following illustrates the position of the bee?
- |             |              |
|-------------|--------------|
| A. $(4, 4)$ | C. $(-4, 4)$ |
| B. $(4, 5)$ | D. $(-4, 5)$ |

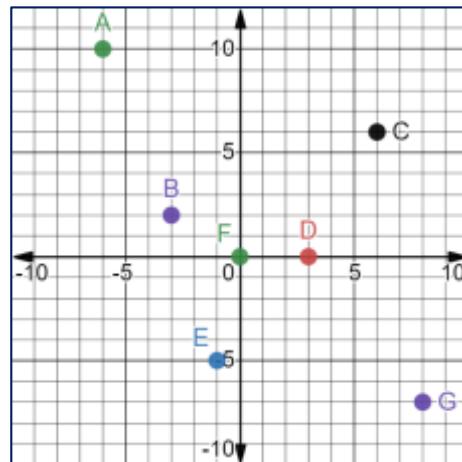


Figure 1

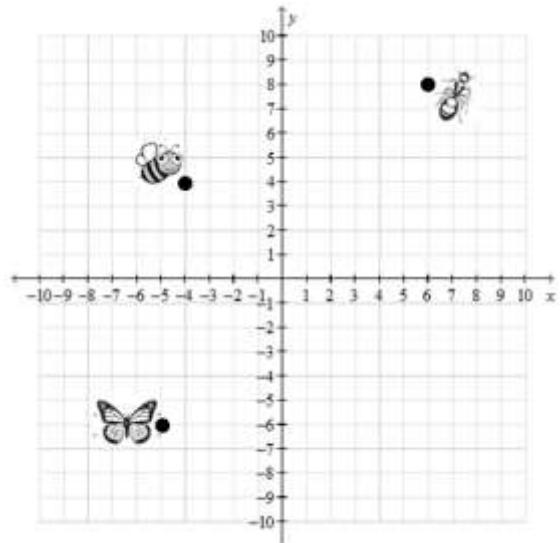


Figure 2

# Lesson 1

# The Rectangular Coordinate System

Historically, maps played a vital role for travelers and explorers. This map contains vertical and horizontal lines called longitude and latitude, respectively. In this modern day, map applications and the Global Positioning System (GPS) in your mobile phone still utilize the use of horizontal and vertical lines to give you the exact location or coordinate of the place you are looking for.

In this lesson, you will learn the concept of Rectangular Coordinate System, plotting points, and locating coordinates which may help you in understanding maps, distance, economics, research and other daily activity.

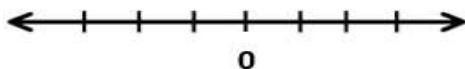


## What's In

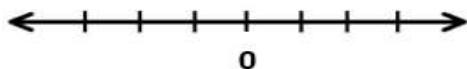
### Activity: PLOT ME!

Plot the given point in the number line. Write your answer in a separate sheet of paper.

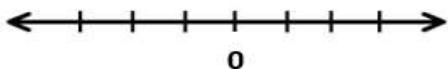
A. 0



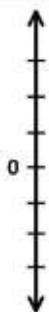
B. 3



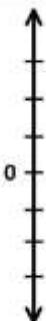
C. -1



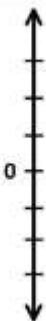
D. 0



E. -2



F. 1



**Questions:**

1. How were you able to locate a positive point and a negative point in the horizontal number line?
2. How were you able to locate a positive point and a negative point in the vertical number line?

Remember:

- The number associated with a point on the number line is called the **coordinate** of that point.
- The coordinate of the **origin** is zero.
- The coordinates of the points to the **right of the origin** on a horizontal number line and **above the origin** on a vertical number line form the set of positive integers.
- The coordinates of the points to the **left of the origin** on a horizontal number line and **below the origin** on a vertical number line form the set of negative integers.



## **What's New**

**Activity: Identifying the Location**

Suppose the books in the shelf are arranged in the following manner.

	<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<b>Row 1</b>		Magazines	
<b>Row 2</b>		English Textbooks	
<b>Row 3</b>	Science Textbooks		
<b>Row 4</b>	Math Textbooks		Language Textbooks

**Questions:**

1. By writing (row number, column number) how will you describe the location of the following:
  - a. Math Textbooks
  - b. Magazines
2. Using ordered pairs in form (row number, column number), how will you locate the others books' position on the shelf?



## What is It

The activity on **Identifying the Location** allows you to write the horizontal and vertical location of the objects in ordered pair. In similar manner, points in the Rectangular Coordinate System are also written in ordered pair.

A **Rectangular Coordinate System** or also known as a Cartesian plane is named after the French mathematician **René Descartes** (1596 – 1650), who is known as the “Father of Modern Mathematics”. It is composed of two perpendicular number lines, typically called the  $x$  – axis and the  $y$  – axis, respectively, that meet at a point of **origin**  $(0, 0)$  and divide the plane into four regions called **quadrants** which are numbered in sequence as Quadrant I, Quadrant II, Quadrant III, and Quadrant IV moving in a counter-clockwise direction starting from the upper right.

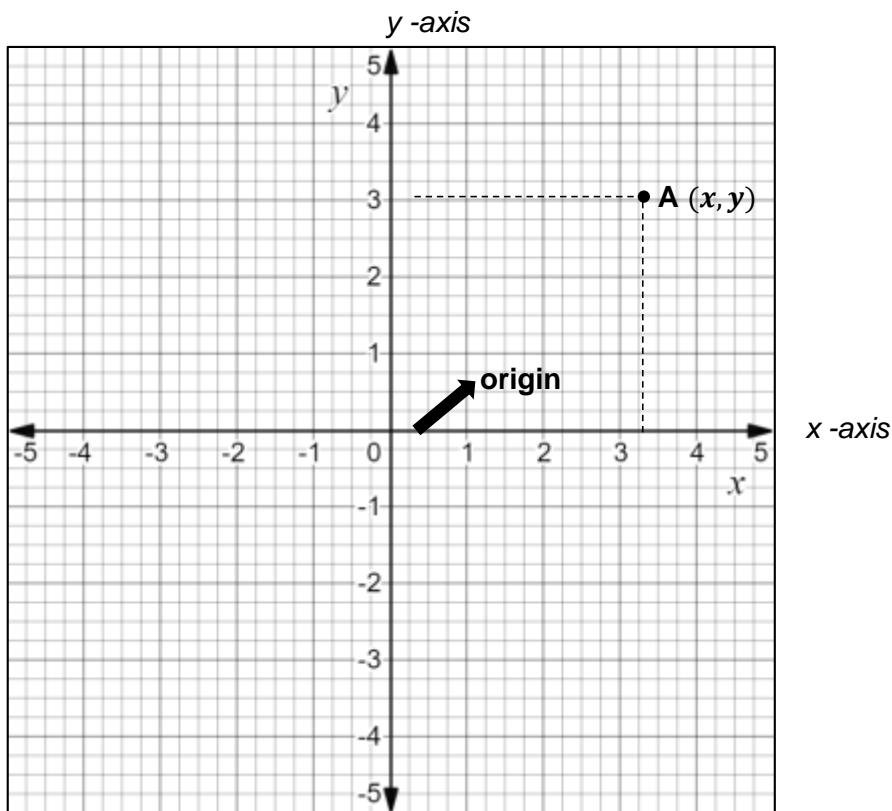


Figure 1

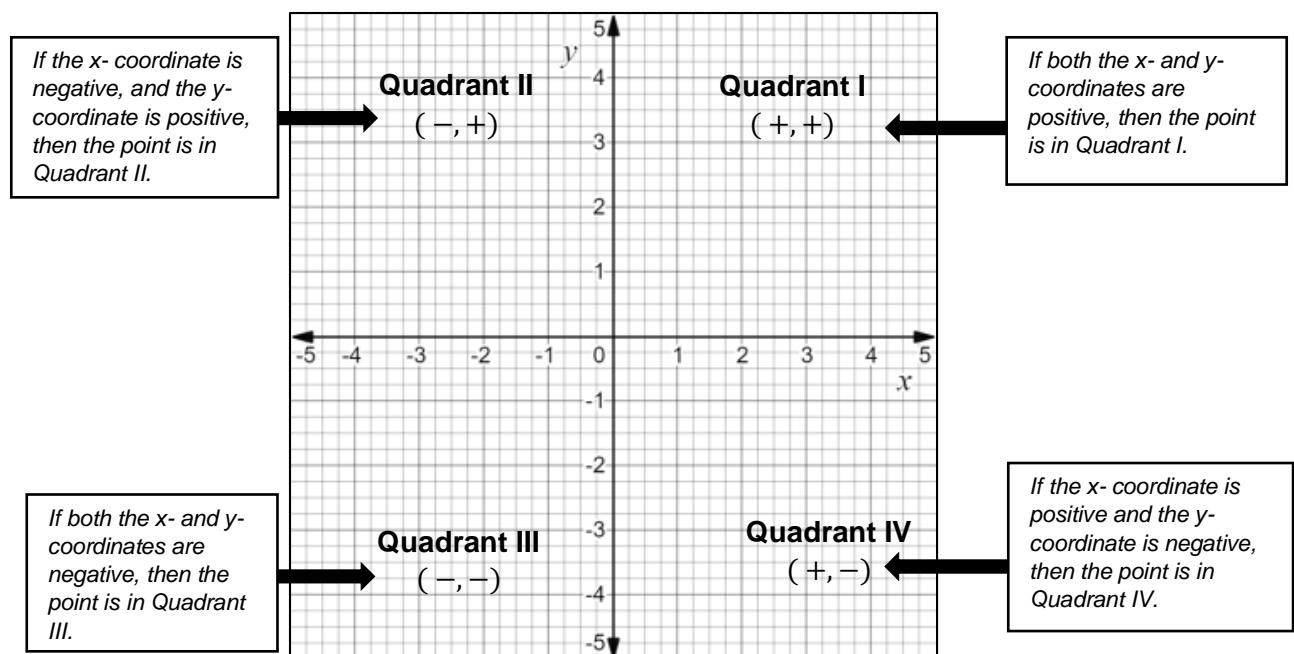
The **horizontal** number line is called the  $x$  – axis.

The **vertical** number line is called the  $y$  – axis.

The **point of intersection** of the horizontal and vertical number lines is called the **origin**.

Each point in the plane can be located using an ordered pair of numbers  $(x, y)$ , where  $x$  is the **horizontal distance** and  $y$  is the **vertical distance** of the point from the **origin**. The numbers in the ordered pair are called **coordinates**. The  $x$ -*value* of the coordinates  $(x, y)$  of a point is also known as the **abscissa**, while the  $y$ -*value* is known as the **ordinate**.

The signs of the first and second coordinates of a point vary in the four quadrants as indicated below.



This means that you can easily tell which quadrant an ordered pair is located by just simply looking at the signs of the coordinates.

There are also points which lie in the  $x$ - and  $y$ -axes. The points which lie in the  $x$ -axis have coordinates  $(x, 0)$  and the points which lie in the  $y$ -axis have coordinates  $(0, y)$ , where  $x$  and  $y$  are real numbers. Let us explore the following examples below.

**Example 1:**

The points A(1,0), B(2,1), C(0,3), D(-4,2), E(-2,-3), and F(4,-4) can be plotted in the Cartesian plane as shown in the illustration in Figure 2 where:

- point A is along the x-axis;
- point B is in Quadrant I;
- point C is along the y-axis;
- point D is in Quadrant II;
- point E is in Quadrant III; and
- point F is in Quadrant IV

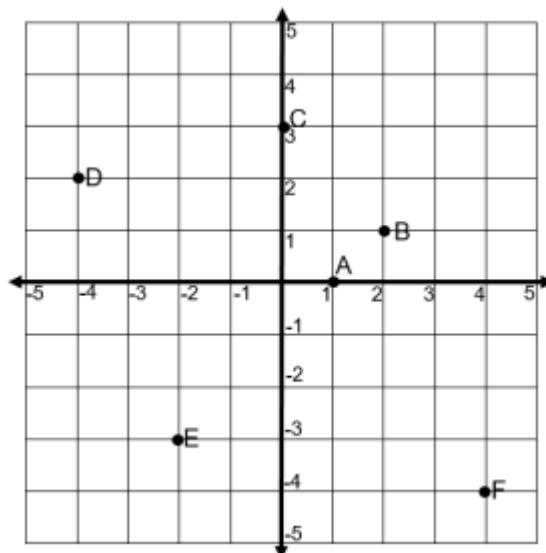


Figure 2

**Remember:** In naming the coordinates of a point, the first coordinate is the  $x$  – coordinate and second is  $y$  – coordinate. *They can't be interchanged.*

**Example 2.** Use the Cartesian plane in Figure 3 to find the coordinates of the following points.

a) M

b) A

c) T

d) H

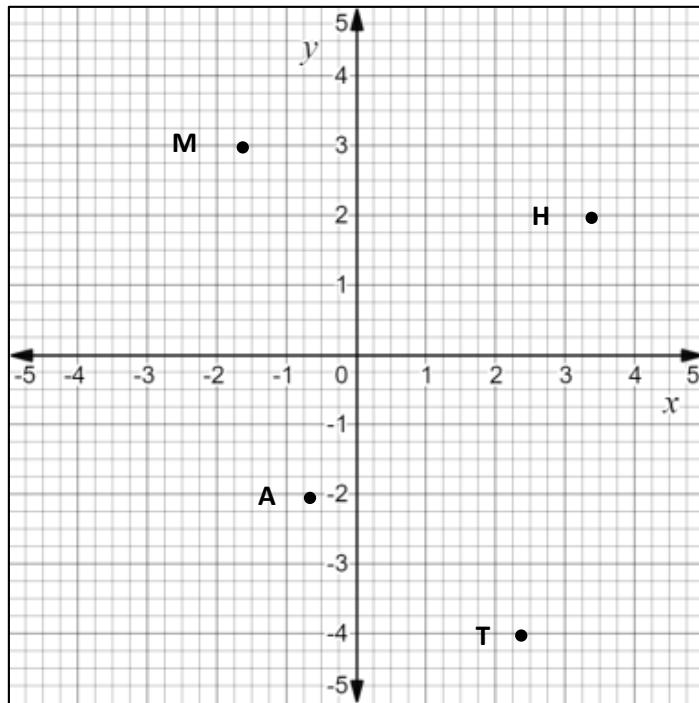


Figure 3

Answer:

- Point M is in Quadrant II. It is located **2 units to the left of the  $y$ -axis** and **3 units above the  $x$ -axis**. Hence, the coordinates of the point M is  $(-2, 3)$ .
- Point A is in Quadrant III. It is located **1 unit to the left of the  $y$ -axis** and **2 units below the  $x$ -axis**. Hence, the coordinates of the point A is  $(-1, -2)$ .
- Point T is in Quadrant IV. It is located **2 units to the right of the  $y$ -axis** and **4 units below the  $x$ -axis**. Hence, the coordinates of the point T is  $(2, -4)$ .
- Point H is in Quadrant I. The point is located **3 units to the right of the  $y$ -axis** and **2 units above the  $x$ -axis**. Hence, the coordinates of the point H is  $(3, 2)$ .

**Example 3.** Plot the points on the Cartesian plane and determine the quadrant. Connect each pair of consecutive points and find the perimeter of the resulting quadrilateral.

a) L  $(3, 4)$

b) O  $(-3, 4)$

c) V  $(-3, -4)$

d) E  $(3, -4)$

Answers: Referring to the Cartesian plane in Figure 4 that follows,

- L (3,4) means that the point is located **3 units to the right of the y-axis** and **4 units above the x-axis**. Since the signs of the coordinates are both positive, point L is in **Quadrant I**.
- O (-3,4) means that the point is located **3 units to the left of the y-axis** and **4 units above the x-axis**. Since the sign of the x-coordinate or the abscissa is negative and the sign of the y-coordinate or the ordinate is positive, then point O is in **Quadrant II**.
- V (-3,-4) means that the point is located **3 units to the left of the y-axis** and **4 units below the x-axis**. Since the signs of both x-and y-coordinates are both negative, point V is in **Quadrant III**.
- E (3,-4) means that the point is located **3 units to the right of the y-axis** and **4 units below the x-axis**. Since the sign of the x-coordinate or abscissa is positive and the sign of the y-coordinate or ordinate is negative, point E is in **Quadrant IV**.

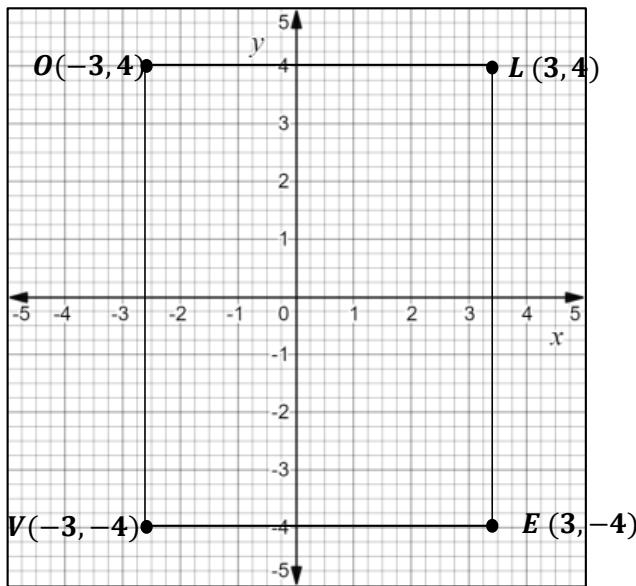


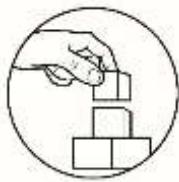
Figure 4

Connecting the adjacent vertices, we see that point L, O, V, and E forms a rectangle. To find the perimeter of the rectangle, we know that:

$$P = 2L + 2W$$

Note that each interval in the Cartesian plane represents one unit of measure. This means that quadrilateral formed by the points L, O, V, E has length of 8 units and width of 6 units. Hence, the perimeter of quadrilateral LOVE is:

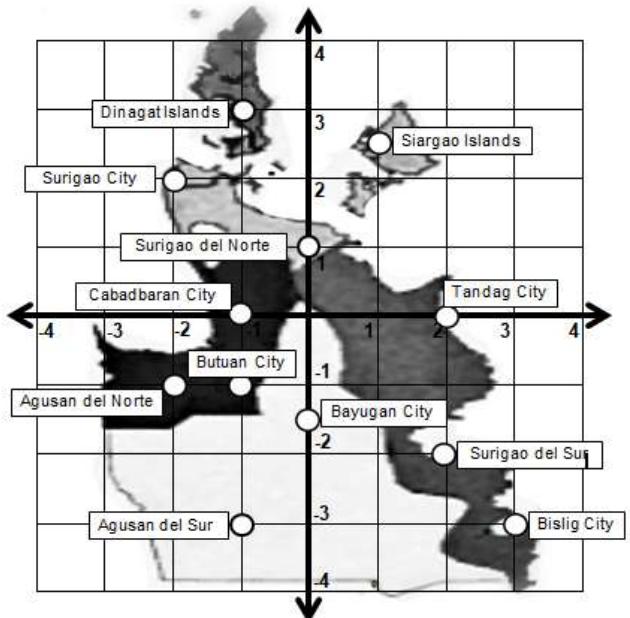
$$\begin{aligned} P &= 2L + 2W \\ P &= 2(8) + 2(6) \\ P &= 16 + 12 \\ P &= 28 \text{ units} \end{aligned}$$



## What's More

### Activity 1: Wow Caraga!

Describe the location of each point that represents a place in Caraga Region by completing the following table. An example is done for you. Write your answer in a separate sheet of paper.

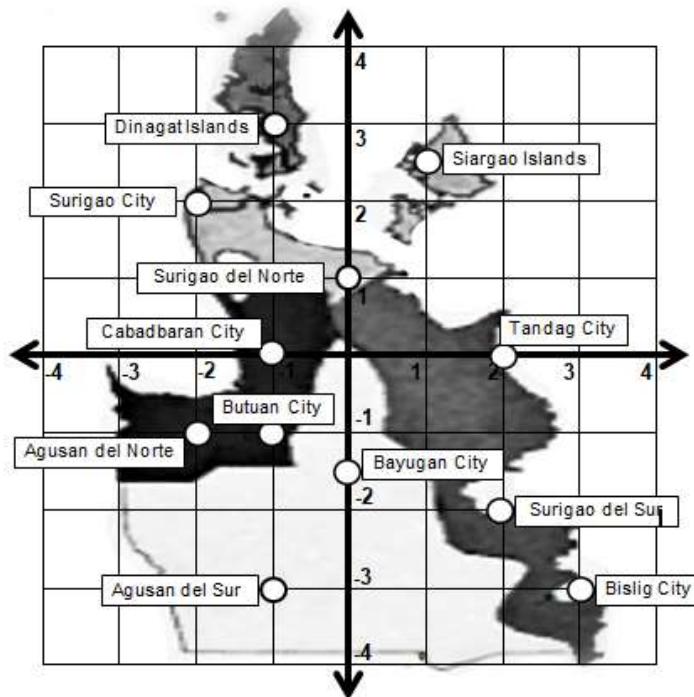


Place	COORDINATES	QUADRANT/AXIS
Example: Dinagat Islands	(-1,3)	QII
1. Agusan del Norte		
2. Cabadbaran City		
3. Surigao City		
4. Agusan del Sur		
5. Bislig City		
6. Surigao del Norte		
7. Tandag City		

### Activity 2: Spotting Erroneous Coordinates

This activity will enable you to correct erroneous coordinates of the point.

Answer the questions asked. Write your answer in a separate sheet of paper.



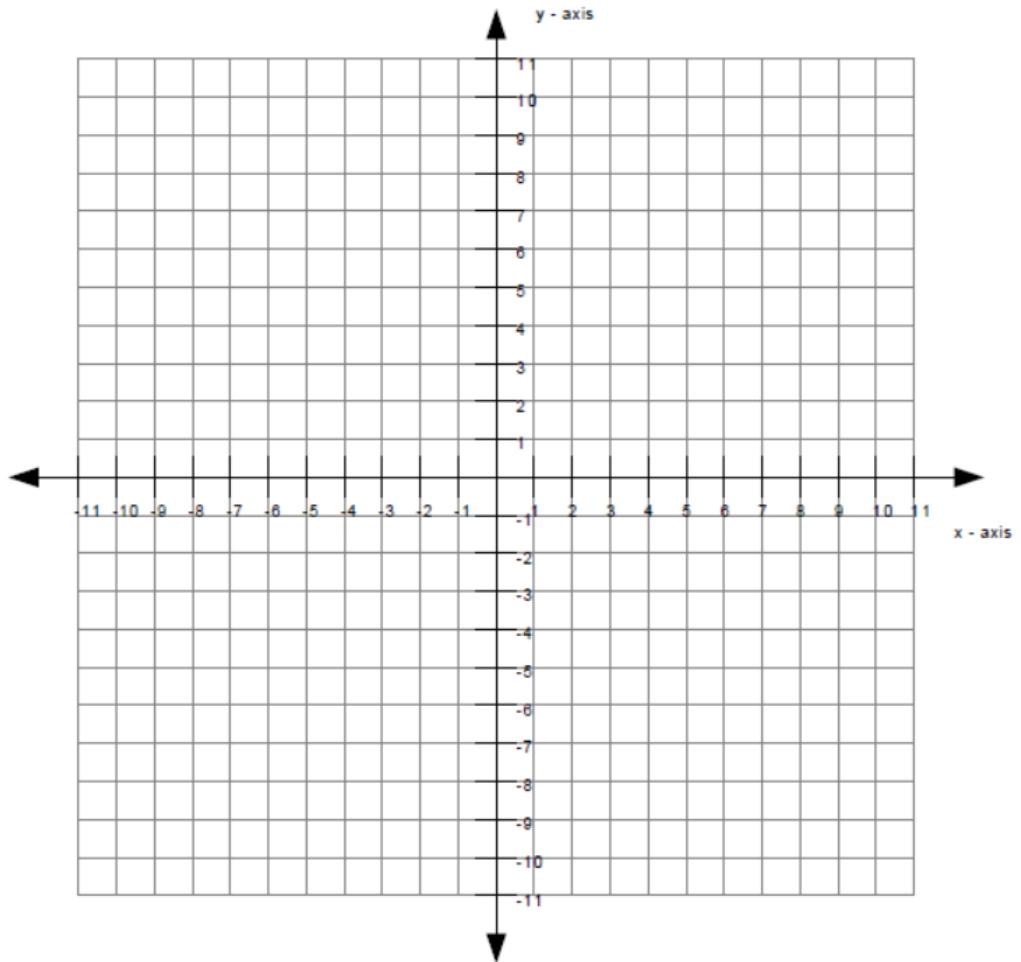
**Questions:**

1. Joey indicated that the Bayugan City can be found at coordinates  $(-1\frac{1}{2}, 0)$ . Do you agree with Joey? Why or why not?
2. Angelo insisted that the Butuan City can be found at coordinates  $(-1, -1)$ . Do you agree with Angelo? Why?
3. Karen insisted that the Siargao Islands can be found at Quadrant I. Is Karen correct? Why?

**Activity 3: Plot the Points**

This activity will enable you to plot the points in the Cartesian plane given its coordinates.

Directions: Plot the following points in the Cartesian Plane then identify which quadrant or axis it belongs. Write your answer in a separate sheet of paper.



- |             |             |
|-------------|-------------|
| 1. A(-8,4)  | 6. F(6,0)   |
| 2. B(-2,-6) | 7. G(-4,-4) |
| 3. C(5,5)   | 8. H(0,0)   |
| 4. D(0,-8)  | 9. I(5,1)   |
| 5. E(10,-3) | 10. J(9,-7) |

**NOTE:** When plotting a point in the Cartesian Plane, remember that the first number is for the horizontal axis and the second number is for the vertical axis. Therefore, make the first move either right or left in the x-axis then up or down in the y-axis.



## **What I Have Learned**

Fill in the blanks of the appropriate element that would make the sentence correct. Write your answer in a separate sheet of paper.

1. The Rectangular Coordinate System is also termed as \_\_\_\_\_ in honor of the French mathematician \_\_\_\_\_ who is known as the “Father of Modern Mathematics.”
2. The Rectangular Coordinate Plane is composed of two perpendicular number lines that meet at the intersection called \_\_\_\_\_ and divide the plane into four regions called \_\_\_\_\_.
3. In an ordered pair, the first number is the x- coordinate which is also known as the \_\_\_\_\_ and the second number is the y – coordinate which is also known as \_\_\_\_\_.
4. The point falls in Quadrant I if it has signs (\_\_\_\_\_,\_\_\_\_\_), Quadrant II if (\_\_\_\_\_,\_\_\_\_\_), Quadrant III if (\_\_\_\_\_,\_\_\_\_\_) and Quadrant IV if (\_\_\_\_\_,\_\_\_\_\_).
5. For more ease in plotting the points in the Cartesian Plane, start making move from the origin either \_\_\_\_\_ or \_\_\_\_\_ in the x-axis then move \_\_\_\_\_ or \_\_\_\_\_ in the y-axis.



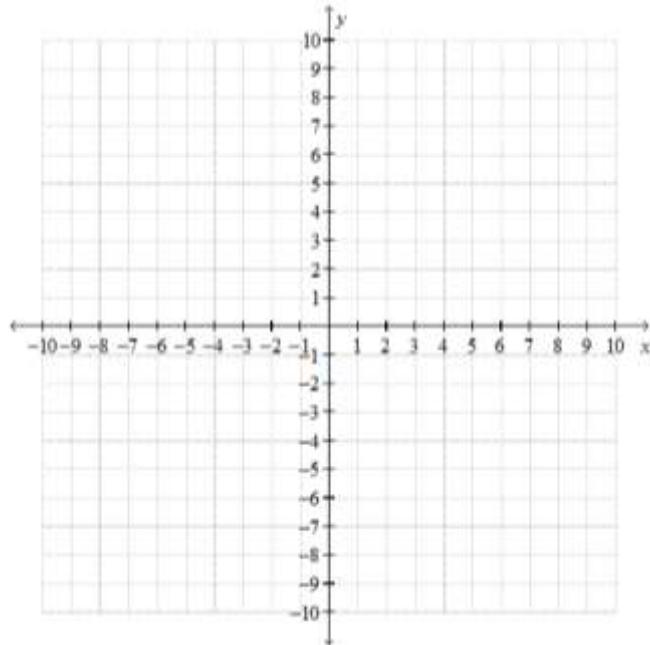
## **What I Can Do**

### **Activity: Find the Hidden Shape**

Plot the following ordered pairs in the Cartesian plane, connect the points, and identify the shape formed. Write your answer in a separate sheet of paper.

(Note: Connect the points in numerical order (order of the items). Don't forget to connect number 5 to number 1.)

1.  $(-6, 4)$
2.  $(4\frac{1}{2}, -5)$
3.  $(1, 8)$
4.  $(-4, -5)$
5.  $(7, 2)$



## Assessment

Choose the letter of the best answer. Write the chosen letter on a separate sheet of paper.

1. The point  $(9, -1)$  is an example of \_\_\_\_\_.  

A. labels	C. fraction
B. numbers	D. ordered pair
2. Point  $(-7, -5)$  is located in which quadrant?  

A. I	C. III
B. II	D. IV
3. What do you call the horizontal number line in the Cartesian plane?  

A. x-axis	C. origin
B. y-axis	D. quadrant
4. When plotting the point  $(-8, 1)$ , which describes the movement along the x-axis and y-axis in the correct order?  

A. 8 units right then 1 unit up	B. 8 units down then 1 unit left
C. 8 units left then 1 unit up	D. 8 units up then 1 unit right

5. In the quadrant I, the values of  $x$ , and  $y$  are always \_\_\_, and \_\_\_, respectively.
- A. positive, positive      C. negative, negative  
 B. positive, negative      D. negative, positive
6. The coordinates for the origin in the coordinate plane are \_\_\_\_\_?
- A. (0,1)      C. (1,1)  
 B. (0,0)      D. (1,0)
7. Which of the following is true about point (5, 5)?
- A. It lies in x-axis      C. It lies in Quadrant I  
 B. It lies in y-axis      D. It lies in Quadrant II
8. Which of the following statements best describes the origin?
- A. The point contains positive and positive integers.  
 B. The point contains negative and negative integers.  
 C. The point contains positive and negative integers.  
 D. The point contains neither positive nor negative integers.

For items 9-12, refer to figure 1 at the right.

9. Which of the following is true about the points?
- A. Point H lies in the x-axis  
 B. Point A has all positive coordinates.  
 C. Point E has all negative coordinates.  
 D. Point D and C are located in Quadrant II.
10. Which of the points lies in the x-axis?
- A. C      C. G  
 B. D      D. H
11. Which points lie in quadrant III?
- A. A      C. E  
 B. C      D. G

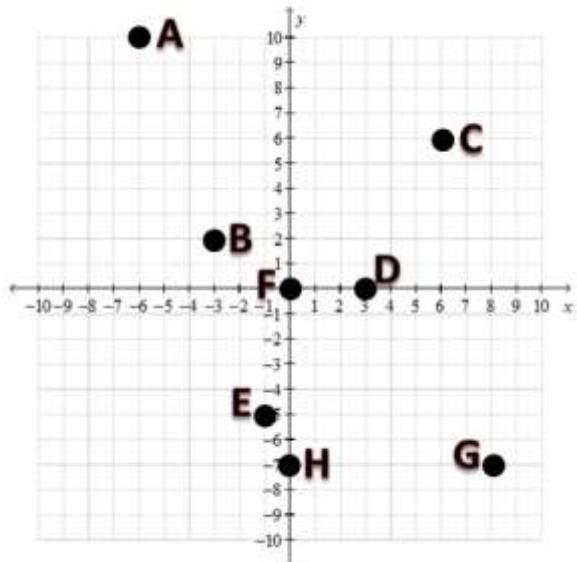


Figure 1

12. Point B has coordinates \_\_\_\_\_.  
A. (-3, 2)      C. (3, 2)  
B. (-3,-2)      D. (3,-2)

For items 13 and 14, refer to Figure 2 at the right.

13. At what coordinate is the table located?

- A. (0,5)      C. (5,0)  
B. (0,-5)      D. (-5,0)

14. At what quadrant is the ball located?

- A. Quadrant I      C. Quadrant III  
B. Quadrant II      D. Quadrant IV

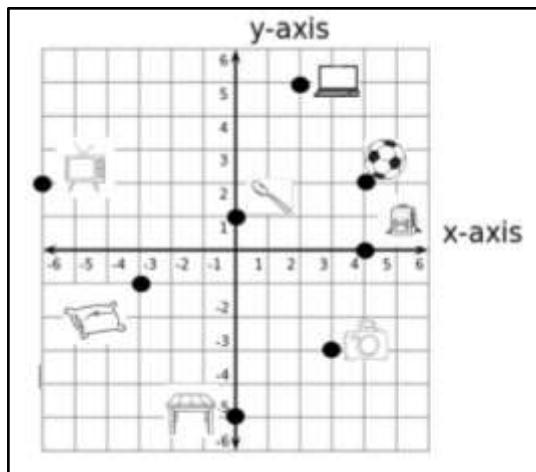


Figure 2

15. Which of the following statement is FALSE?

- A. Points that lie in Quadrant I has all positive signs.  
B. Points that lie in Quadrant III has all negative signs.  
C. Points that lie in Quadrant II has all positive signs.  
D. Points that lie in Quadrant IV has positive and negative signs.



## ***Additional Activities***

### **Activity: Our House**

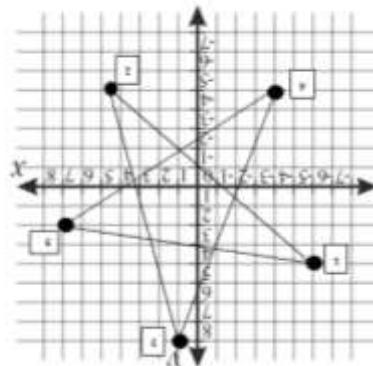
This activity will enable you to give the coordinates of the parts of your own houses.

Describe the location of each part of your house (e.g. areas in the house, etc.) by plotting them in a Cartesian Plane. Identify which point in the Cartesian Plane each part belongs. Assume that the center of your house is the origin. Draw and write your answer in a separate graphing paper.



# Answer Key

Pre-assessment	Assessment
1. D	1. C
2. C	2. A
3. A	3. D
4. C	4. A
5. A	5. C
6. B	6. B
7. C	7. B
8. D	8. A
9. C	9. B
10. B	10. C
11. C	11. A
12. A	12. D
13. B	13. B
14. A	14. A
15. C	15. C



Directions: Plot the following ordered pairs in the Cartesian plane, connect the points, then identify the shape formed.

Activity: Find the hidden shape



## What I Can Do

2. By using (row number, column number), we say that  
Scenice Textbooks are at (3, 1) English textbooks are at  
(2, 2), Language textbooks are at (4, 3)

b. (1,2)

1. a. (4,1)

Activity: Identify the Location

Description: This activity will enable you to plot the points in the Cartesian Plane given its coordinates.

Direction: Plot the following points in the Cartesian Plane then identify which quadrant or axis it falls.

Activity 6: PLOT THE POINTS

3. Yes

4. No because Baguio City is located in Q1. It is

5. Sungka de Fortuna

6. Sungka de Fortuna

7. Tandag City

8. X-axis

9. Y-axis

10. QIII

11. QII

12. QI

13. QIV

14. QIII

15. QII

16. QI

17. QIV

18. QIII

19. QII

20. QI

21. QIV

22. QIII

23. QII

24. QIV

25. QIII

26. QII

27. QIV

28. QIII

29. QII

30. QIV

31. QIII

32. QII

33. QIV

34. QIII

35. QII

36. QIV

37. QIII

38. QII

39. QIV

40. QIII

41. QII

42. QIV

43. QIII

44. QII

45. QIV

46. QIII

47. QII

48. QIV

49. QIII

50. QII

51. QIV

52. QIII

53. QII

54. QIV

55. QIII

56. QII

57. QIV

58. QIII

59. QII

60. QIV

61. QIII

62. QII

63. QIV

64. QIII

65. QII

66. QIV

67. QIII

68. QII

69. QIV

70. QIII

71. QII

72. QIV

73. QIII

74. QII

75. QIV

76. QIII

77. QII

78. QIV

79. QIII

80. QII

81. QIV

82. QIII

83. QII

84. QIV

85. QIII

86. QII

87. QIV

88. QIII

89. QII

90. QIV

91. QIII

92. QII

93. QIV

94. QIII

95. QII

96. QIV

97. QIII

98. QII

99. QIV

100. QIII

101. QII

102. QIV

103. QIII

104. QII

105. QIV

106. QIII

107. QII

108. QIV

109. QIII

110. QII

111. QIV

112. QIII

113. QII

114. QIV

115. QIII

116. QII

117. QIV

118. QIII

119. QII

120. QIV

121. QIII

122. QII

123. QIV

124. QIII

125. QII

126. QIV

127. QIII

128. QII

129. QIV

130. QIII

131. QII

132. QIV

133. QIII

134. QII

135. QIV

136. QIII

137. QII

138. QIV

139. QIII

140. QII

141. QIV

142. QIII

143. QII

144. QIV

145. QIII

146. QII

147. QIV

148. QIII

149. QII

150. QIV

151. QIII

152. QII

153. QIV

154. QIII

155. QII

156. QIV

157. QIII

158. QII

159. QIV

160. QIII

161. QII

162. QIV

163. QIII

164. QII

165. QIV

166. QIII

167. QII

168. QIV

169. QIII

170. QII

171. QIV

172. QIII

173. QII

174. QIV

175. QIII

176. QII

177. QIV

178. QIII

179. QII

180. QIV

181. QIII

182. QII

183. QIV

184. QIII

185. QII

186. QIV

187. QIII

188. QII

189. QIV

190. QIII

191. QII

192. QIV

193. QIII

194. QII

195. QIV

196. QIII

197. QII

198. QIV

199. QIII

200. QII

201. QIV

202. QIII

203. QII

204. QIV

205. QIII

206. QII

207. QIV

208. QIII

209. QII

210. QIV

211. QIII

212. QII

213. QIV

214. QIII

215. QII

216. QIV

217. QIII

218. QII

219. QIV

220. QIII

221. QII

222. QIV

223. QIII

224. QII

225. QIV

226. QIII

227. QII

228. QIV

229. QIII

230. QII

231. QIV

232. QIII

233. QII

234. QIV

235. QIII

236. QII

237. QIV

238. QIII

239. QII

240. QIV

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