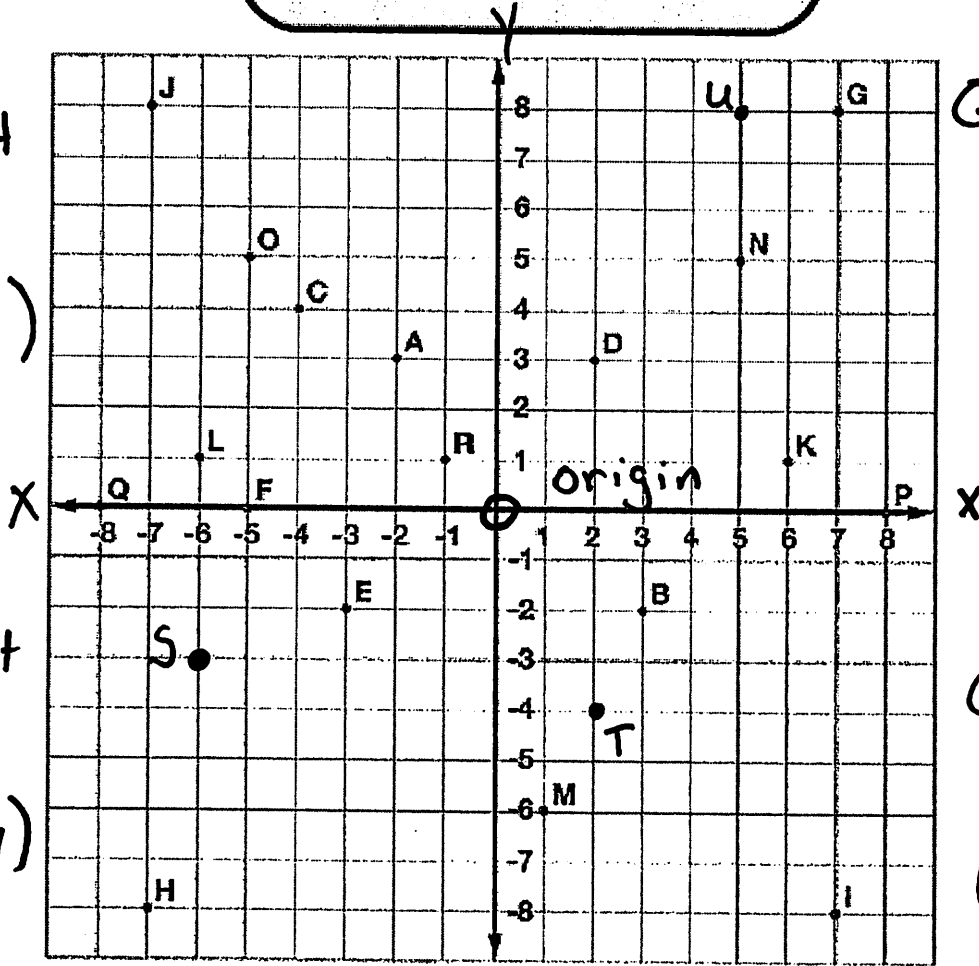## Ordered Pairs

Quadrant II $(-x, y)$

Quadrant I (x, y)

Quadrant III $(-x, -y)$

Quadrant IV $(x, -y)$

Origin

Tell what point is located at each ordered pair.

1. (3,-2) __B__   2. (2,3) __D__   3. (-5,5) __O__

4. (-7,-8) __H__   5. (-4,4) __C__   6. (-5,0) __F__

Write the ordered pair for each given point.

7. E $(-3, -2)$ 8. M $(1, -6)$ 9. P $(8,0)$

10. G $(7,8)$ 11. Q $(-8,0)$ 12. N $(5,5)$

Plot the following points on the coordinate grid.

13. S (-6,-3)   14. T (2,-4)   15. U (5,8)

Identifying Ordered Pairs

A) Write the point that is located at each ordered pair.

1) (4, -5) _____   2) (3, 4) _____

3) (-5, -4) _____   4) (5, 0) _____

5) (1, -1) _____   6) (-5, 3) _____

7) (0, 2) _____   8) (-4, -1) _____

9) (5, -3) _____   10) (3, 1) _____
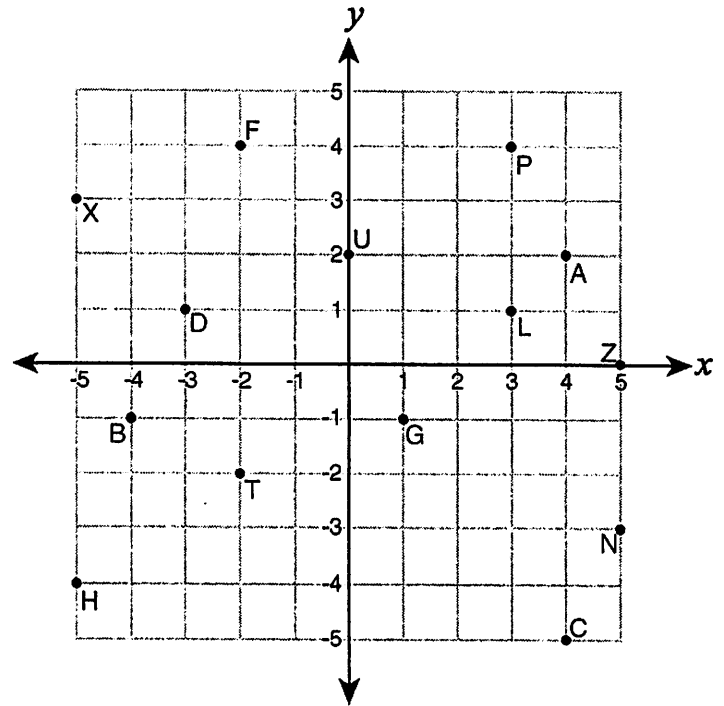
B) Write the ordered pair for each point.
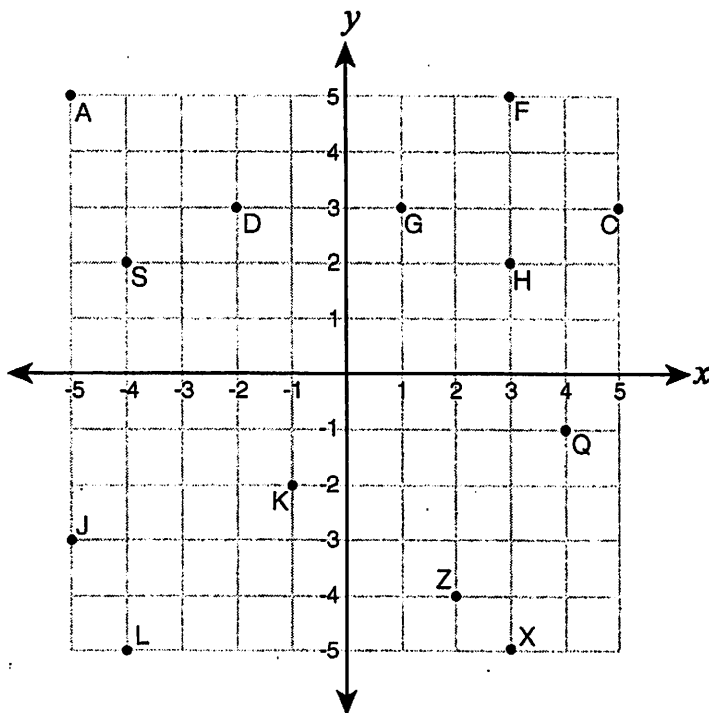
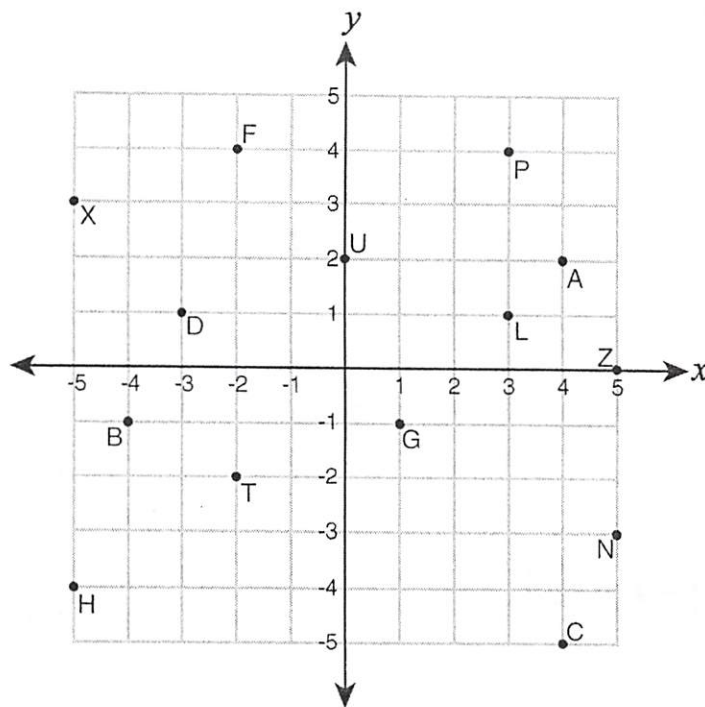11) H (___ , ___)   12) Q (___ , ___)

13) K (___ , ___)   14) G (___ , ___)

15) S (___ , ___)   16) J (___ , ___)

17) Z (___ , ___)   18) D (___ , ___)

19) A (___ , ___)   20) L (___ , ___)

Identifying Ordered Pairs

A) Write the point that is located at each ordered pair.

1) (4, -5) _C_

2) (3, 4) _P_

3) (-5, -4) _H_

4) (5, 0) _Z_

5) (1, -1) _G_

6) (-5, 3) _X_

7) (0, 2) _U_

8) (-4, -1) _B_

9) (5, -3) _N_

10) (3, 1) _L_

B) Write the ordered pair for each point.
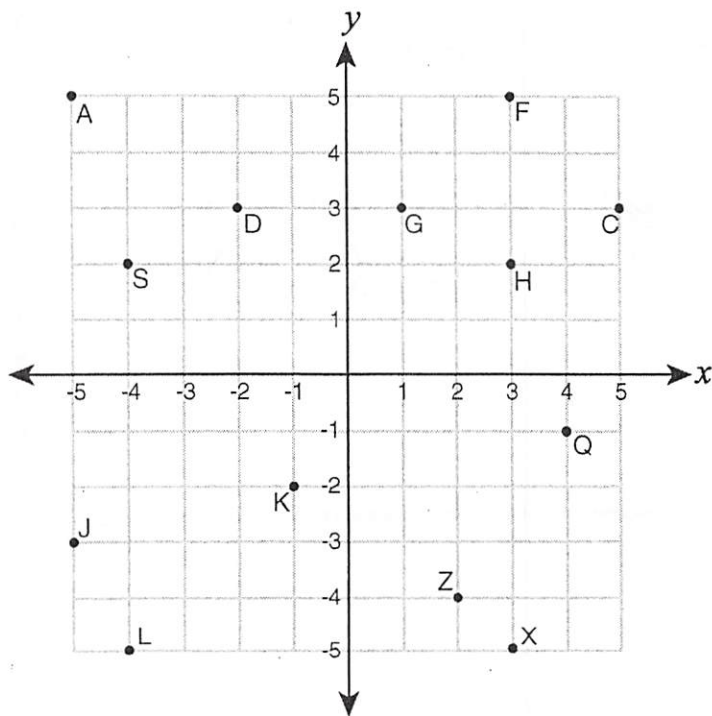
11) H(_3_ , _2_)

12) Q(_4_ , _-1_)

13) K(_-1_ , _-2_)

14) G(_1_ , _3_)

15) S(_-4_ , _2_)

16) J(_-5_ , _-3_)

17) Z(_2_ , _-4_)

18) D(_-2_ , _3_)

19) A (_-5_ , _5_)

20) L(_-4_ , _-5_)

Quadrants & Axes

Tick the relavent box for each ordered pair.

Ordered Pair	I Quadrant	II Quadrant	III Quadrant	IV Quadrant	On x-axis	On y-axis
(0, 9)						
(-1, -4)						
(0, 5)						
(-5, 3)						
(-6, -2)						
(2, 0)						
(5, 1)						
(-3, 7)						
(3, -3)						
(-7, -2)						

Name : _____

Score : _____

Quadrants & Axes

Tick the relavent box for each ordered pair.

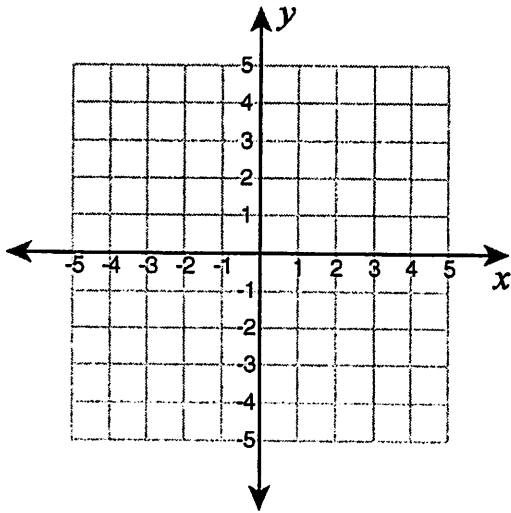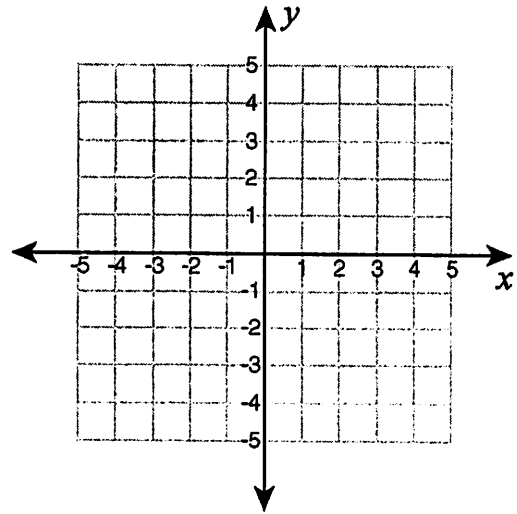| Ordered Pair	I Quadrant	II Quadrant	III Quadrant	IV Quadrant	On x-axis	On y-axis
(0, 9)						X
(-1, -4)			X			
(0, 5)						X
(-5, 3)		X				
(-6, -2)			X			
(2, 0)					X	
(5, 1)	X					
(-3, 7)		X				
(3, -3)				X		
(-7, -2)			X			

Plotting Points - Line segments

Plot each set of ordered pairs. Join the points and find the length of the line segment.

1) (4 , -1) , (4 , -5)

Length of the line segment = _____

2) (-5 , -1) , (4 , -1)

Length of the line segment = _____

3) (-1 , 2) , (5 , 2)

Length of the line segment = _____

4) (-3 , 2) , (-3 , -5)

Length of the line segment = _____

5) Player 1 kicked the ball to player 3. If each unit measured 2 yards, what would have been the distance traveled by the ball?   _____

6) How many players are there at a distance of four units from player 5?   _____

7) You are at (3, 3). You are allowed to pass the ball either horizontally or vertically. To which   _____

Plotting Points - Line segments

Plot each set of ordered pairs. Join the points and find the length of the line segment.
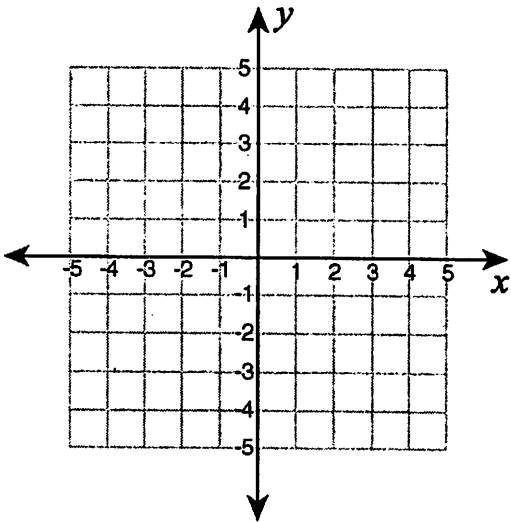
1) (4, -1) , (4, -5)

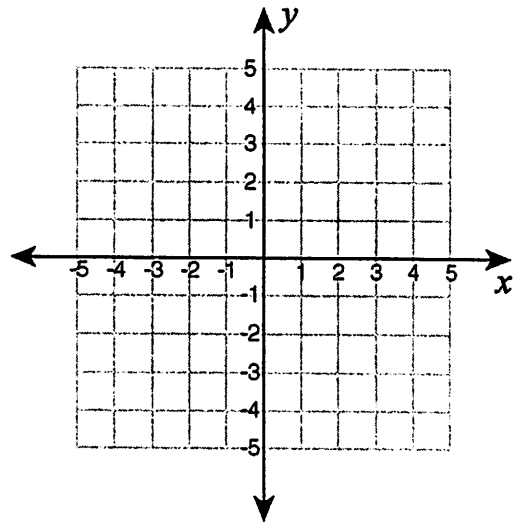Length of the line segment = __4__

2) (-5, -1) , (4, -1)
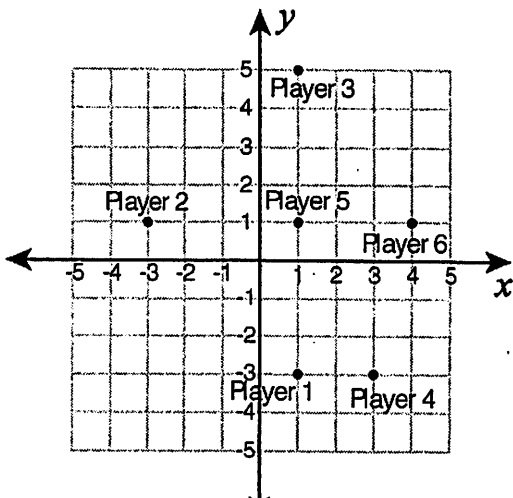
Length of the line segment = __9__

3) (-1, 2) , (5, 2)
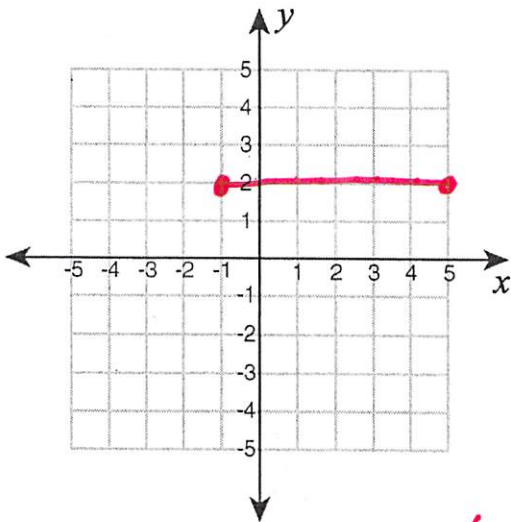
Length of the line segment = __6__

4) (-3, 2) , (-3, -5)
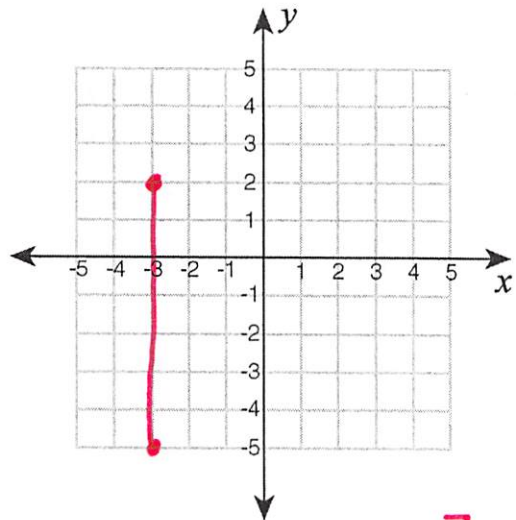
Length of the line segment = __7__
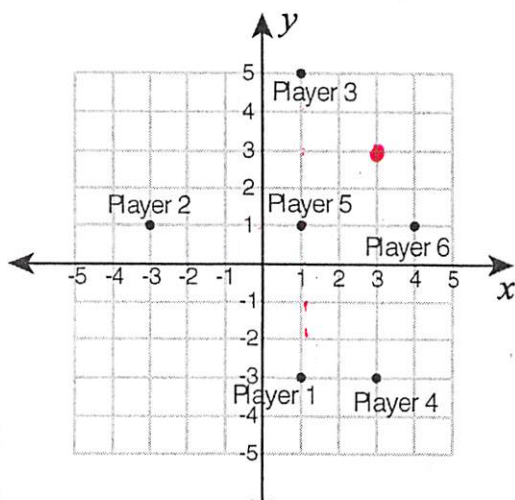
5) Player 1 kicked the ball to player 3. If each unit measured 2 yards, what would have been the distance traveled by the ball?   __8 × 2 = 16 yards__

6) How many players are there at a distance of four units from player 5?   __3__

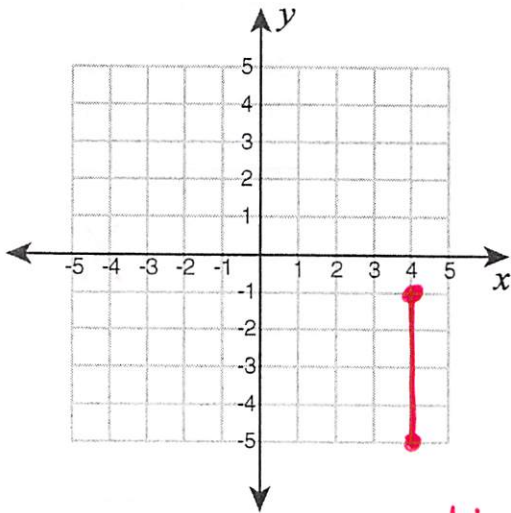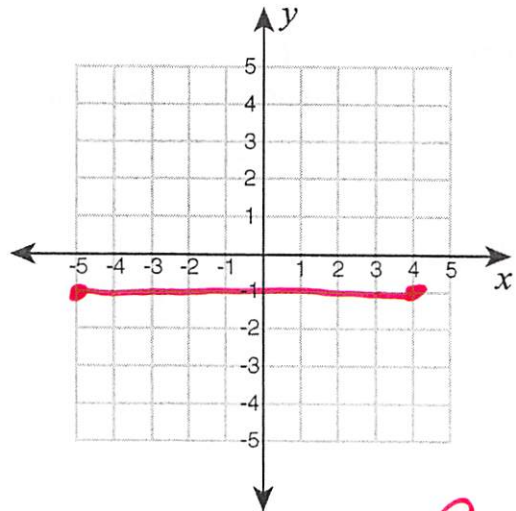7) You are at (3, 3). You are allowed to pass the ball either horizontally or vertically. To which   __Player 4__
Player can you pass the ball

Perimeter of Geometric Shapes

Write the name of the geometric shapes and identify its perimeter:
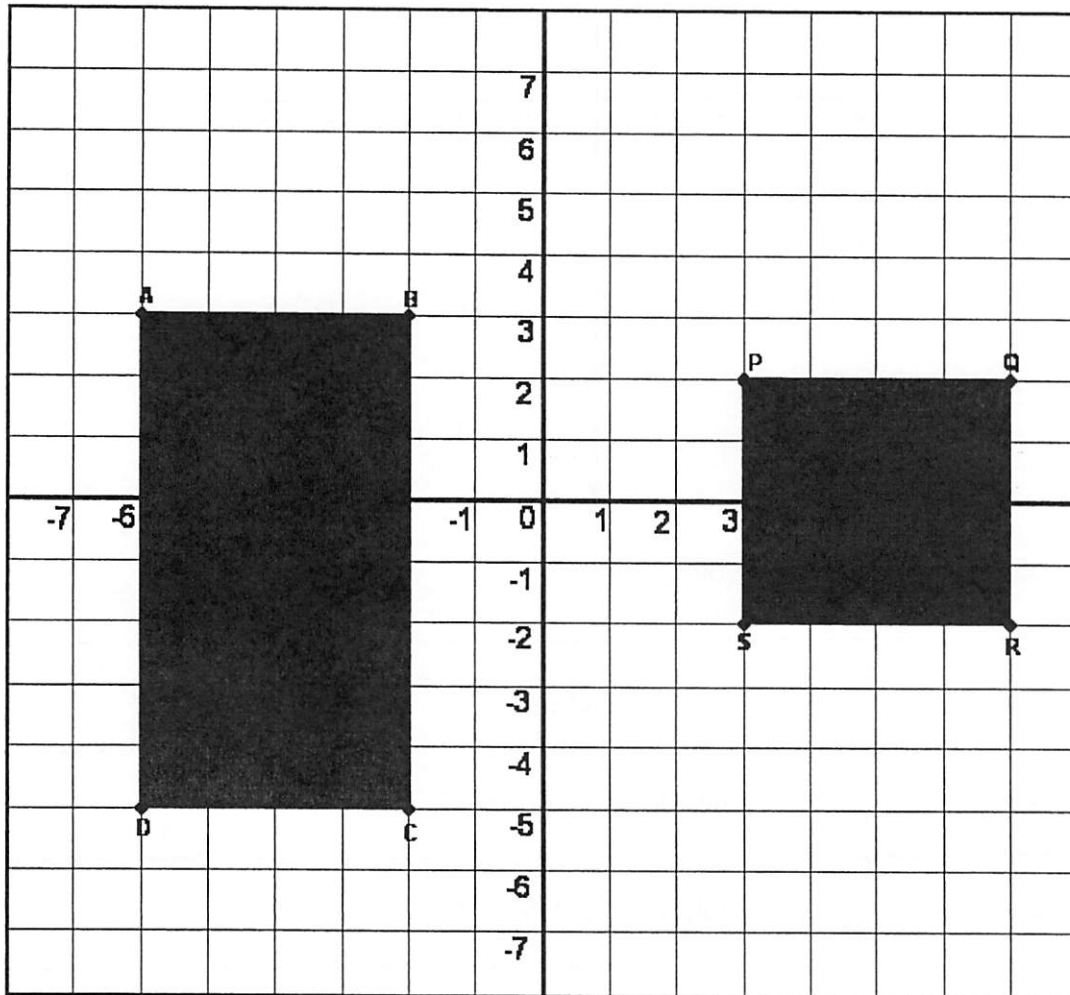
ABCD is a _____. Perimeter of ABCD is _____ units.

PQRS is a _____. Perimeter of PQRS is _____ units.

Perimeter of Geometric Shapes

Write the name of the geometric shapes and identify its perimeter:
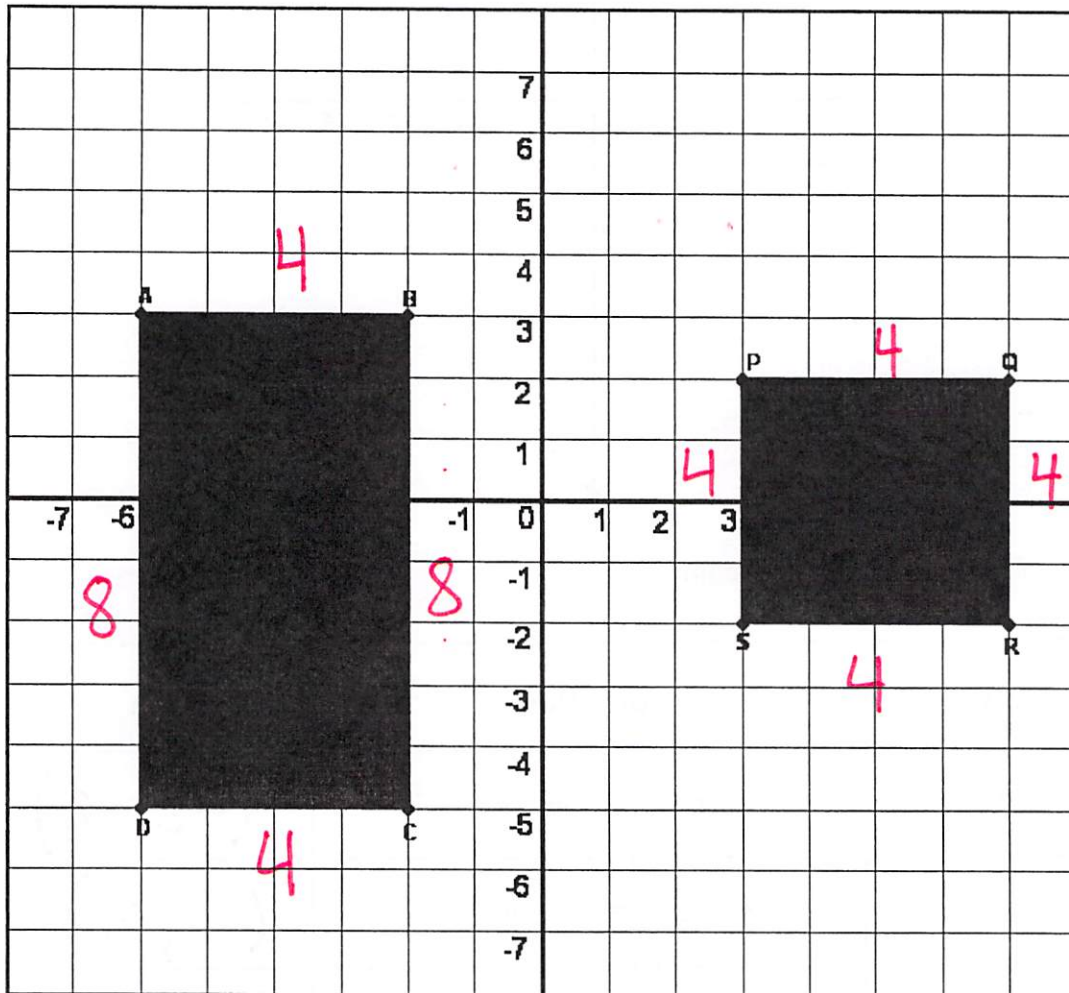
ABCD is a _rectangle_. Perimeter of ABCD is ___24___ units.

PQRS is a _Square_. Perimeter of PQRS is ___16___ units.

Moving the Points
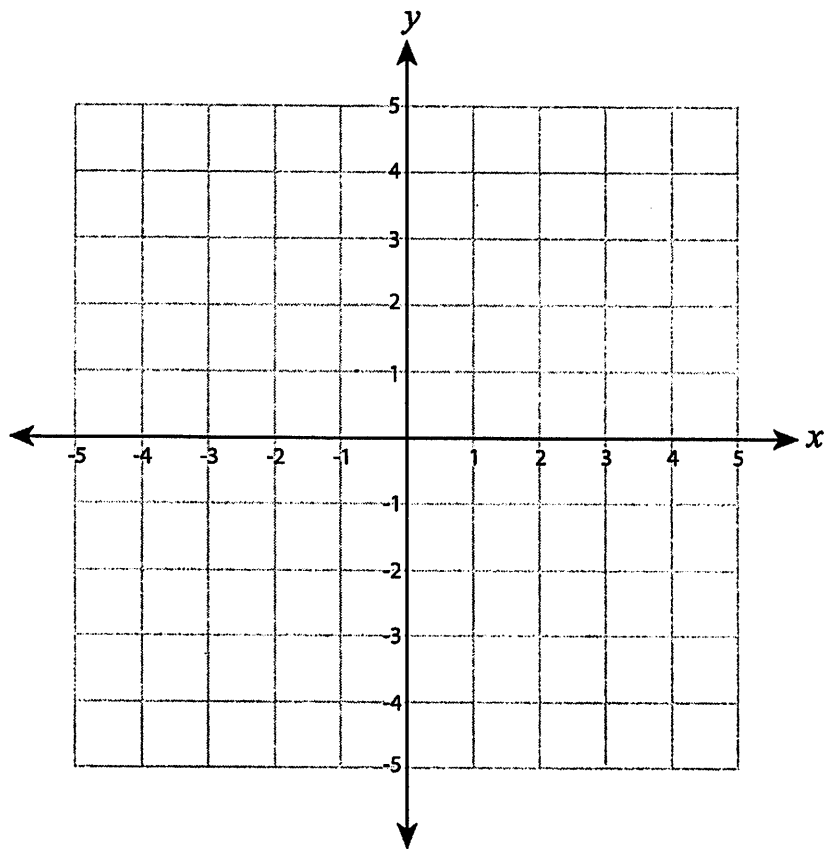
Find the coordinates of each end point.

Start	Direction	End
(2, 3)	5 units down and 4 units left	
(-2, -1)	3 units up and 3 units right	
(4, -5)	6 units left and 7 units up	
(1, 0)	4 units right and 2 units up	
(-5, -5)	8 units right and 3 units up	

1) You are at (-1, 0). Move 2 units left and 5 units up. Where do you land? _____

2) You are at (5, 5). Move 6 units down and 4 units right. Where do you land?

Moving the Points

Find the coordinates of each end point.

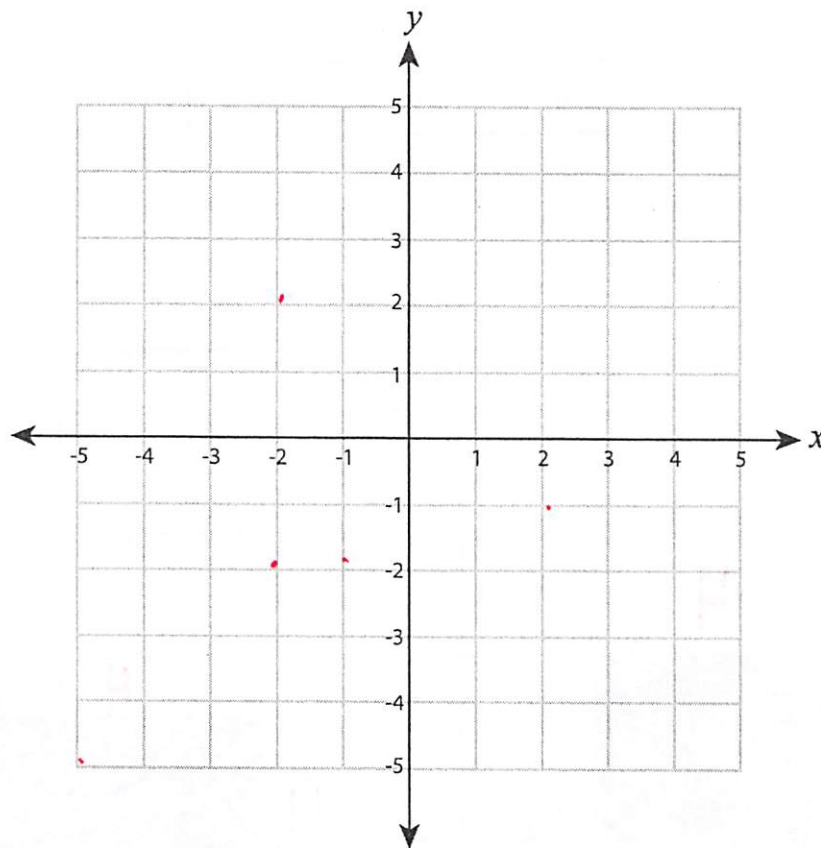| Start	Direction	End
(2, 3)	5 units down and 4 units left	(-2, -2)
(-2, -1)	3 units up and 3 units right	(1, 2)
(4, -5)	6 units left and 7 units up	(-2, 2)
(1, 0)	4 units right and 2 units up	(5, 2)
(-5, -5)	8 units right and 3 units up	(3, -2)

1) You are at (-1, 0). Move 2 units left and 5 units up. Where do you land?   (-3, 5)

2) You are at (5, 5). Move 6 units down and 4 units right. Where do you land?   (9, -1)
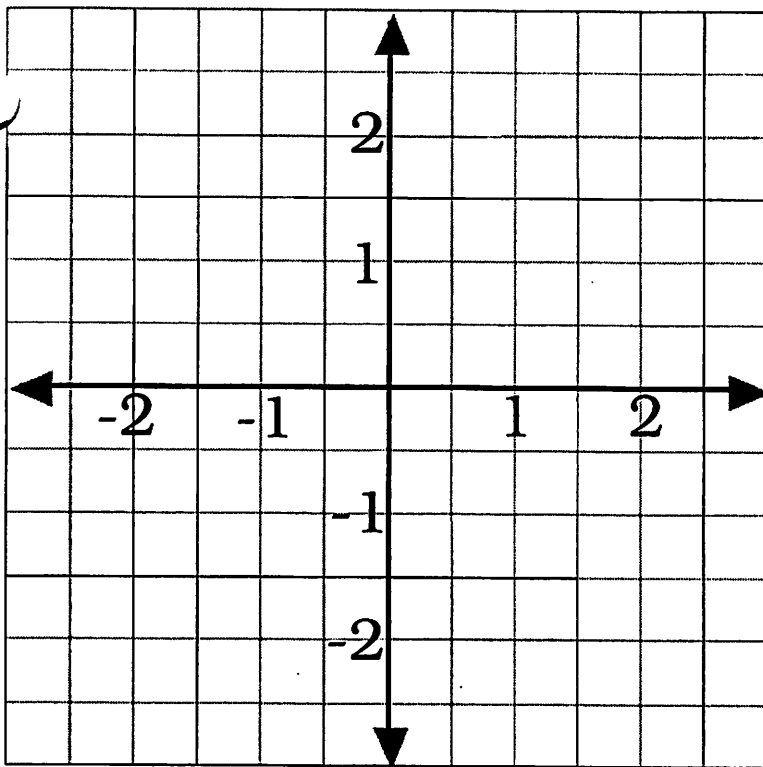
Graphing Points, Reflection and Distance Practice   Name _____

Plot and connect the points in order listed.

1. (0, 2.5)   6. (0, -1.5)

2. ($\frac{3}{4}$, 0.75)   7. ($-1\frac{3}{4}$, -2.5)

3. (2.75, $\frac{3}{4}$)   8. (-1, $-\frac{1}{2}$)

4. (1, -0.5)   9. ($-2\frac{3}{4}$, 0.75)

5. ($1\frac{3}{4}$, $-2\frac{1}{2}$)   10. (-0.75, $\frac{3}{4}$)

Use the following graph to answer the following questions

1. The Hospital is in which Quadrant?

2. The Fire Station is in which Quadrant?

3. What is the Distance between the Library and the Post Office?

4a. If the Bank is Reflected across the *x-axis*, what point will this be?

   b. What is the Distance from the Bank to this point?

5. If the School is reflected across the *y-axis* and then the *x-axis*, what point will that be?
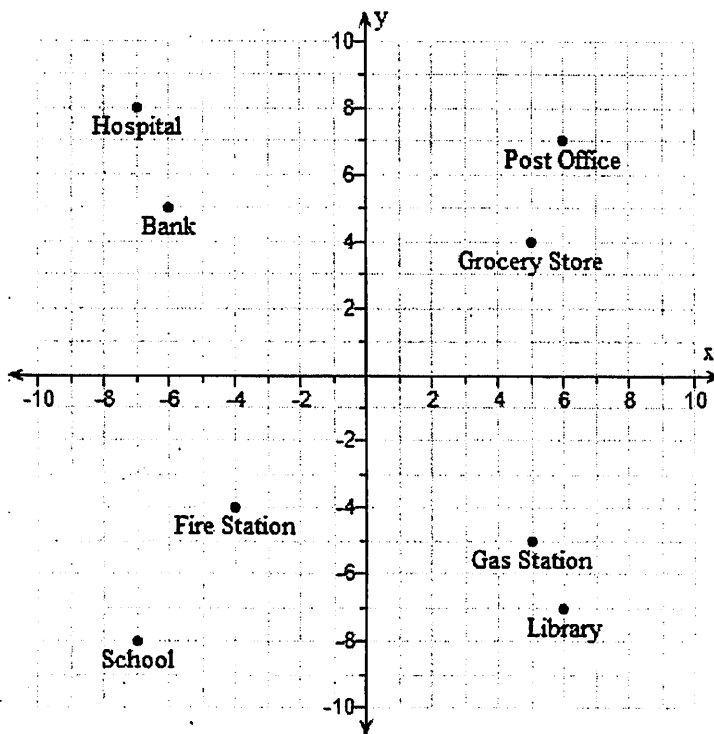
6. If a new Drug Store was built at the point (0, 6), in which Quadrant would it be located?

CCSS Use Math Tools Refer to the map of Wonderland Park. (Examples 3 and 4)

a. What is located closest to the origin?

b. Liza is standing at (2, 4). What is located at the reflection of (2, 4) across the x-axis? What are the coordinates of this location?

c. What is located at the reflection of (3, 1) across the y-axis? What are the coordinates of this location?

d. The Pipeline Plunge is reflected across the x-axis. What are the coordinates of its new location?

1. The first clue is hidden near a tree. What ordered pair describes its location?

2. Maria hid the next clue at a location reflected across the y-axis. Where is it hidden?

3. She walks 3 blocks east and 2 blocks north to place the next clue. Where is it hidden?

4. The next clue is at a location reflected across the x-axis. Where is it hidden?

5. Maria hid the next clue under a rock by the lake. How many blocks east did she walk to the lake?

6. The final clue tells the hikers to walk 5 blocks north and three blocks east to find the prize. What ordered pair describes the location of the prize?

Graphing Points, Refection and Distance Practice   Name _____

Plot and connect the points in order listed.

1. (0, 2.5)   6. (0, -1.5)

2. ($\frac{3}{4}$, 0.75)   7. ($-1\frac{3}{4}$, -2.5)

3. (2.75, $\frac{3}{4}$)   8. (-1, $-\frac{1}{2}$)

4. (1, -0.5)   9. ($-2\frac{3}{4}$, 0.75)

5. ($1\frac{3}{4}$, $-2\frac{1}{2}$)   10. (-0.75, $\frac{3}{4}$)
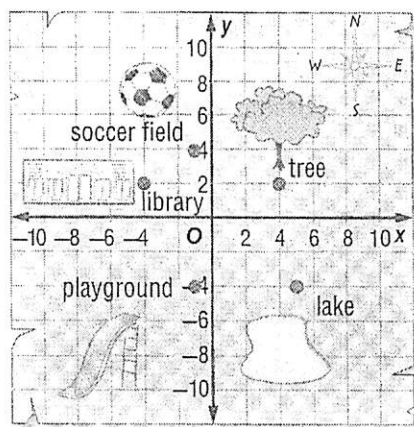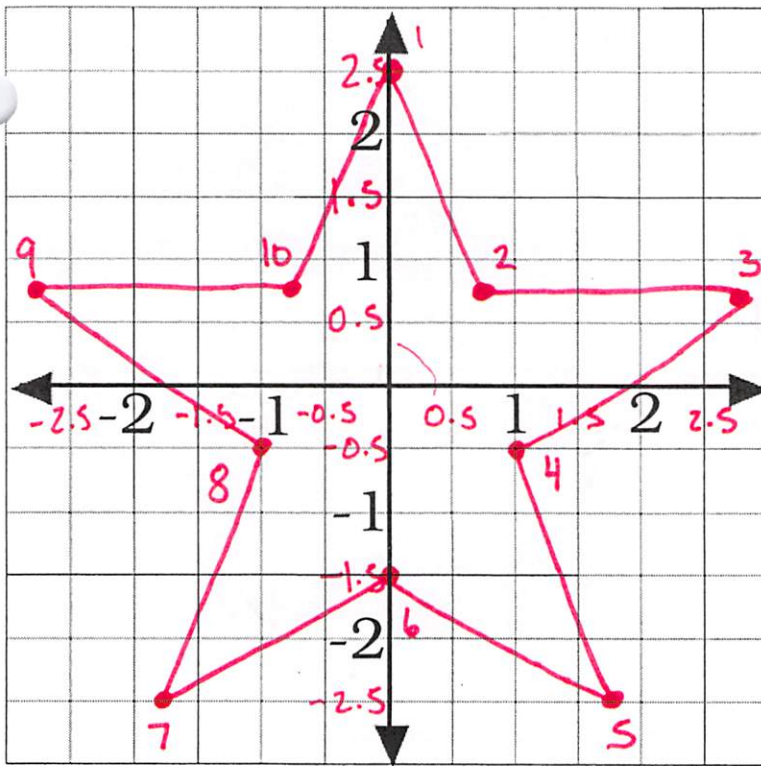
Use the following graph to answer the following questions

1. The Hospital is in which Quadrant? **II**

2. The Fire Station is in which Quadrant? **III**

3. What is the Distance between the Library and the Post Office?   **14 units**

4a. If the Bank is Reflected across the *x-axis*, what point will this be?

(-6, -5)

 b. What is the Distance from the Bank to this point?

10 units

5. If the School is reflected across the *y-axis* and then the *x-axis*, what point will that be?

(7, 8)
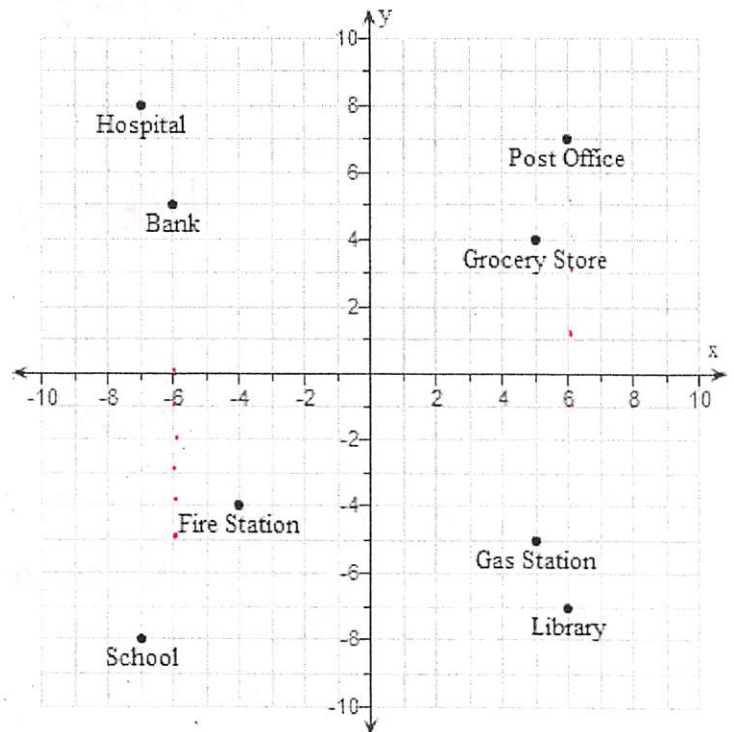
6. If a new Drug Store was built at the point (0, 6), in which Quadrant would it be located?

No Quadrant

CCSS Use Math Tools Refer to the map of Wonderland Park. (Examples 3 and 4)

a. What is located closest to the origin?

The Clock

b. Liza is standing at (2, 4). What is located at the reflection of (2, 4) across the x-axis? What are the coordinates of this location?
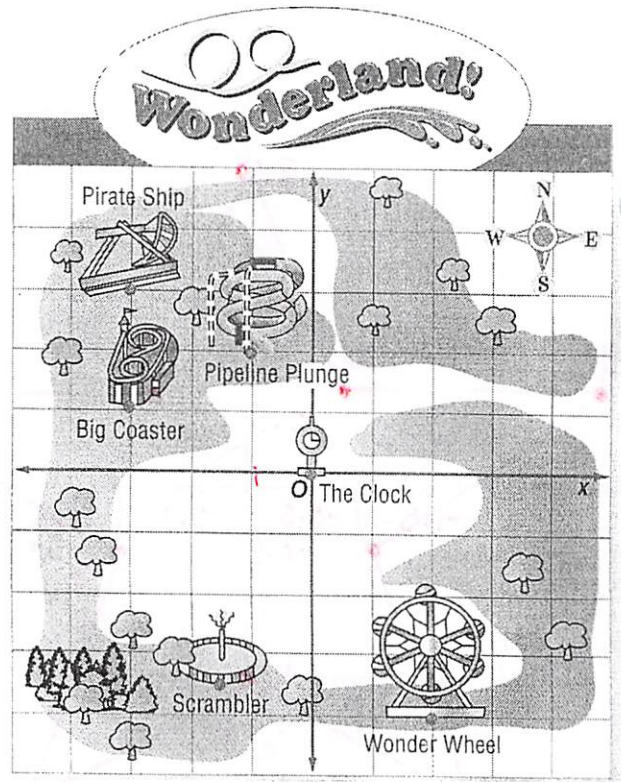
Wonder Wheel

c. What is located at the reflection of (3, 1) across the y-axis? What are the coordinates of this location?

Big Coaster

d. The Pipeline Plunge is reflected across the x-axis. What are the coordinates of its new location?

(-1, -2)

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1. The first clue is hidden near a tree. What ordered pair describes its location?

(4, 2)

2. Maria hid the next clue at a location reflected across the y-axis. Where is it hidden?

Library

3. She walks 3 blocks east and 2 blocks north to place the next clue. Where is it hidden?

Soccer Field

4. The next clue is at a location reflected across the x-axis. Where is it hidden?

Playground

5. Maria hid the next clue under a rock by the lake. How many blocks east did she walk to the lake?

6 blocks

6. The final clue tells the hikers to walk 5 blocks north and three blocks east to find the prize. What ordered pair describes the location of the prize?

(8, 1)