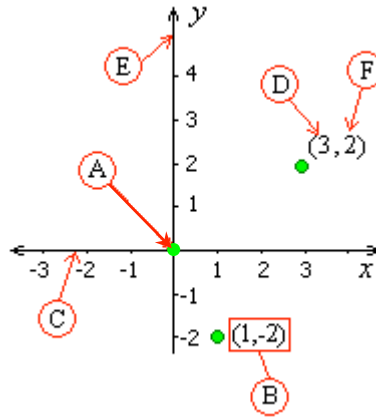


### 3.1 Plotting Points

Name \_\_\_\_\_

Match the items below with the appropriate letter in the diagram below



1.  $x$  – axis \_\_\_\_\_

2.  $y$  – axis \_\_\_\_\_

3.  $x$  – coordinate \_\_\_\_\_

4.  $y$  – coordinate \_\_\_\_\_

5. ordered pair \_\_\_\_\_

6. origin \_\_\_\_\_

Fill in the blank to complete each statement.

7. The point of intersection of the  $x$ -axis and the  $y$ -axis is called the

\_\_\_\_\_.

8. A pair of numbers enclosed in parentheses used to describe a point on a coordinate plane is called an

\_\_\_\_\_.

9. The vertical number line of a coordinate plane is called the

\_\_\_\_\_.

10. The horizontal number line of a coordinate plane is called the

\_\_\_\_\_.

11. The coordinate plane is divided by the  $x$ -axis and the  $y$ -axis into four

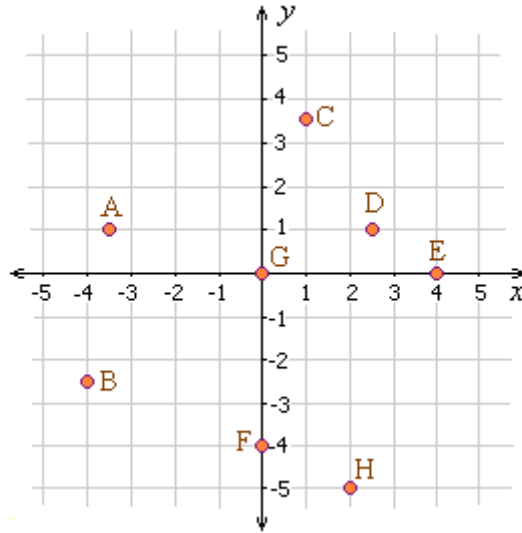
\_\_\_\_\_.

12. If a point does not lie in one of the quadrants, then it lies on one of the

\_\_\_\_\_.

Answers: 1. C; 3. D; 5. B; 7. origin; 9.  $y$ -axis; 11. quadrants

Write the ordered pair associated with each lettered point in the coordinate plane shown.



13. A \_\_\_\_\_

14. E \_\_\_\_\_

15. B \_\_\_\_\_

16. F \_\_\_\_\_

17. C \_\_\_\_\_

18. G \_\_\_\_\_

19. D \_\_\_\_\_

20. H \_\_\_\_\_

Name the quadrant or axis in which each point lies.

21. A \_\_\_\_\_

22. E \_\_\_\_\_

23. B \_\_\_\_\_

24. F \_\_\_\_\_

25. C \_\_\_\_\_

26. G \_\_\_\_\_

27. D \_\_\_\_\_

28. H \_\_\_\_\_

Answer: 13.  $(-3.5, 1)$ ; 15.  $(-4, -2.5)$ ; 17.  $(1, 3.5)$ ; 19.  $(2.5, 1)$ ; 21. II; 23. III; 25. I; 27. I

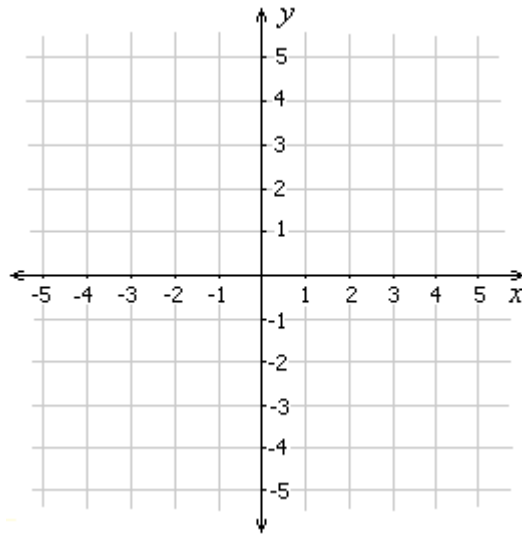
Plot the four points given below. Then, using the four points as corners of a rectangle, draw the rectangle.

$(-2, 3)$

$(4, 3)$

$(-2, -1)$

$(4, -1)$



**29.** Recalling that the perimeter of a geometric figure is the distance around the outside of the figure, calculate the perimeter of the rectangle you drew above.

**30.** Recalling that the area of a geometric figure is the number of square units needed to cover the figure exactly, calculate the area of the rectangle you drew above.

Answer: **29.** 20