



# Math Worksheet for 5th Grade

## Intro to the coordinate plane

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

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1. What is the name of the horizontal line on the coordinate plane?
2. What is the name of the vertical line on the coordinate plane?
3. What is the point called where the two axes meet?
4. In an ordered pair written  $(x, y)$ , which number tells how far to move right or left from the origin?
5. In an ordered pair  $(x, y)$ , which number tells how far to move up or down from the origin?
6. A point is 3 units to the right of the origin and 4 units up. What is its coordinate?
7. A point is 5 units left of the origin and 2 units down. What is its coordinate?
8. Point A is at  $(2, 0)$ . On which axis does point A lie?
9. Point B is at  $(0, -3)$ . On which axis does point B lie?
10. What are the coordinates of the origin?
11. Point P is at  $(1, 2)$  and point Q is at  $(1, 6)$ . How many units apart are P and Q?
12. Point A is at  $(2, 3)$  and point B is at  $(7, 3)$ . How many units apart are A and B?
13. Which point is 3 units to the right of the point  $(1, 4)$ ?
14. Starting at  $(3, 2)$ , move left 2 and up 3. What is the new coordinate?
15. Which single point lies on both the x-axis and the y-axis?
16. In which quadrant is the point  $(-2, 5)$ ?
17. In which quadrant is the point  $(3, -4)$ ?
18. In which quadrant is the point  $(-3, -1)$ ?
19. If a point is on the x-axis, what is its y-coordinate?
20. If a point is on the y-axis, what is its x-coordinate?
21. Point A is at  $(6, 0)$  and point B is at  $(6, 4)$ . What is the distance between A and B?
22. A treasure is at  $(4, 3)$ . Sam starts at  $(4, 1)$ . How many steps up does Sam need to reach the treasure?
23. A robot starts at  $(0, 0)$ . It moves right 5, up 2, then left 3. What is its final coordinate?
24. Write the coordinate of a point that is 7 units to the right of the origin and on the x-axis.
25. Give two different coordinates of points that are 4 units above the x-axis.
26. Are the points  $(1, 3)$  and  $(4, 3)$  on the same horizontal line? Explain briefly.
27. Point  $(2, 5)$  is reflected across the y-axis. What is the new coordinate?
28. M is at  $(-1, 4)$  and N is at  $(2, 4)$ . How many units apart are M and N?
29. Is the point  $(3, 3)$  in the first quadrant?
30. Which point is three units below  $(4, 6)$ ?
31. How many units is the point  $(8, 0)$  from the origin?
32. Point A is at  $(0, 5)$  and point B is at  $(0, -2)$ . How many units apart are A and B?



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33. Write the ordered pair for a point that is 2 units left of the origin and 6 units up.
34. Lily is at  $(2, 2)$ . How many units right and how many units up is she from the point  $(5, 7)$ ?
35. True or false: In the ordered pair  $(3, 4)$ , the y-coordinate is 3.
36. A rectangle has corners at  $(1, 1)$ ,  $(5, 1)$ ,  $(5, 4)$ , and  $(1, 4)$ . What are the width and the height of the rectangle?
37. Which point is on the x-axis and 3 units to the right of the origin?
38. Name three different points that lie on the y-axis.
39. A point is plotted at  $(-4, 0)$ . What are its x-coordinate and y-coordinate?
40. Is the point  $(7, 2)$  in the first quadrant?
41. Station A is at  $(2, 3)$  and Station B is at  $(2, 8)$ . How many units apart are the two stations?
42. Write the coordinate of a point that is 6 units left of the origin and 2 units down.
43. A square has vertices  $(2, 2)$ ,  $(5, 2)$ ,  $(5, 5)$ ,  $(2, 5)$ . What is the area of the square?
44. Which point is one unit left and two units down from the origin?
45. If you move from  $(-3, 1)$  to  $(0, 1)$ , how many units did you move and in which direction?
46. What are the coordinates of the point labeled P if P is at  $x = 9$  and  $y = -3$ ?
47. Points X $(3, 0)$ , Y $(3, 3)$ , and Z $(0, 3)$  are plotted. What shape do these three points make?
48. How many units apart are the points  $(4, 4)$  and  $(4, 0)$ ?
49. Which point is farther from the origin:  $(0, 6)$  or  $(5, 0)$ ?
50. A point is at  $(2, -4)$ . Is it closer to the x-axis or the y-axis? (Explain using distances.)