



Math Worksheet for 8th Grade

Introduction to scatter plots

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Questions

1. Given $x = [1, 2, 3]$ and $y = [4, 5, 6]$, write the ordered pairs to plot.
2. Given $x = [0, 2, 4]$ and $y = [5, 5, 5]$, write the ordered pairs to plot.
3. Given $x = [-1, 0, 1]$ and $y = [2, 3, 4]$, write the ordered pairs to plot.
4. Given $x = [3, 3, 3]$ and $y = [1, 2, 3]$, write the ordered pairs to plot.
5. Given $x = [10, 20, 30]$ and $y = [15, 25, 35]$, write the ordered pairs to plot.
6. Given $x = [5, 10, 15]$ and $y = [0, 5, 10]$, write the ordered pairs to plot.
7. Given $x = [-3, -1, 1, 3]$ and $y = [9, 3, 1, -1]$, write the ordered pairs to plot.
8. Given $x = [2, 4, 6, 8]$ and $y = [1, 2, 3, 4]$, write the ordered pairs to plot.
9. Given $x = [0, 1, 2, 3, 4]$ and $y = [0, 1, 4, 9, 16]$, write the ordered pairs to plot.
10. Given $x = [7, 6, 5]$ and $y = [2, 4, 6]$, write the ordered pairs to plot.
11. Given $x = [-2, -1, 0, 1, 2]$ and $y = [4, 2, 0, 2, 4]$, write the ordered pairs to plot.
12. Given $x = [1, 2, 3, 4]$ and $y = [8, 6, 4, 2]$, write the ordered pairs to plot.
13. Given $x = [0, 10, 20]$ and $y = [100, 90, 80]$, write the ordered pairs to plot.
14. Given $x = [3, 0, -3]$ and $y = [3, 0, -3]$, write the ordered pairs to plot.
15. Given $x = [4, 5, 6]$ and $y = [8, 10, 12]$, write the ordered pairs to plot.
16. In which quadrant is the point $(3, 4)$?
17. In which quadrant is the point $(-2, 5)$?
18. In which quadrant is the point $(-3, -1)$?
19. In which quadrant is the point $(4, -6)$?
20. Where is the point $(0, 5)$ located (which axis or quadrant)?
21. Where is the point $(7, 0)$ located (which axis or quadrant)?
22. Where is the point $(0, 0)$ located?
23. Where is the point $(-5, 0)$ located (which axis or quadrant)?
24. Where is the point $(0, -3)$ located (which axis or quadrant)?
25. From the points $(2, 3)$, $(-1, 4)$, $(-2, -5)$, $(4, -1)$, $(0, 0)$, which point(s) lie in Quadrant II?
26. Write the coordinate for a point that is 3 units right and 2 units up from the origin.
27. Write the coordinate for a point that is 4 units left and 5 units down from the origin.
28. Write the coordinate for a point at the origin.
29. Write the coordinate for a point that is 2 units left and 0 units up from the origin.
30. Write the coordinate for a point that is 0 units right and 7 units up from the origin.
31. If x-values range from 0 to 50, give a suitable x-axis tick scale (list tick marks).



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32. If y-values range from 23 to 97, give a suitable y-axis tick scale (list tick marks).
33. If x-values range from -20 to 20, give a suitable x-axis tick scale (list tick marks).
34. If x-values range from 0 to 12, give a suitable x-axis tick scale (list tick marks).
35. If y-values range from 100 to 500, give a suitable y-axis tick scale (list tick marks).
36. Given points (1, 2), (2, 1), (3, 5), (4, 3), (0, 0), how many points have $y > x$?
37. Given points (-1, 2), (3, -4), (-5, 0), (2, 2), (0, -1), how many points have x negative?
38. Given points (0, 3), (4, 0), (1, 1), (-2, 0), (0, 0), how many points lie on an axis?
39. Given points (1, 1), (2, 3), (-1, 2), (3, -1), (4, 4), how many points are in Quadrant I?
40. Given points (5, 0), (0, 5), (-3, 0), (0, -2), (1, 0), how many points have $y = 0$?
41. Point A is (4, ?) and lies on the x-axis. What is A?
42. Point B is (? , -3) and lies on the y-axis. What is B?
43. Point C is (-5, ?) and is 5 units above the x-axis. What is C?
44. Give the coordinate of a point 2 units left and 6 units above the origin.
45. A point has $x = 3$ and is 4 units below the x-axis. What is its coordinate?
46. What is the midpoint between (2, 4) and (6, 8)?
47. What is the midpoint between (-3, 5) and (3, -1)?
48. What are the average (mean) x and mean y for the points (1, 2), (3, 4), (5, 6)?
49. What is the slope between the points (1, 2) and (4, 5)?
50. What is the slope between the points (0, 0) and (0, 5)?