



Math Worksheet for 8th Grade

Solutions to linear equations

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Questions

1. What are the coordinates of the origin?
2. Which quadrant is the point (4, 2) in?
3. Which quadrant is the point (-3, -5) in?
4. Which quadrant is the point (-4, 3) in?
5. On which axis is the point (0, -6)?
6. On which axis is the point (5, 0)?
7. What are the coordinates of the point 3 units right and 2 units up from the origin?
8. On which axis is the point (-2, 0)?
9. Is (2, 5) a solution to $y = 2x + 1$?
10. Is (3, 7) a solution to $y = 2x + 1$?
11. Is (1, 4) a solution to $x + y = 5$?
12. Is (2, 4) a solution to $x + y = 5$?
13. Is (-1, 6) a solution to $x + y = 5$?
14. Is (0, 5) a solution to $x + y = 5$?
15. Is (3, -1) a solution to $2x + y = 5$?
16. Is (2, 1) a solution to $2x + y = 5$?
17. Is (1, 3) a solution to $2x + y = 5$?
18. Is (3, 0) a solution to $y = x - 2$?
19. Is (-1, -3) a solution to $y = x - 2$?
20. Is (1, 3) a solution to $y = -x + 4$?
21. For $x + y = 6$, which of these are solutions: (1,5), (2,5), (6,0), (3,4)?
22. For $y = 3x$, which of these are solutions: (2,6), (0,0), (1,4), (-1,-3)?
23. For $2x - y = 1$, which of these are solutions: (1,1), (0,-1), (2,3), (1,-1)?
24. For $y = -2x + 5$, which of these are solutions: (0,5), (1,3), (2,1), (3,-1)?
25. For $x - y = 4$, which of these are solutions: (5,1), (6,3), (2,-2), (4,1)?
26. Find y if (3, y) is a solution to $y = 2x + 1$.
27. Find x if (x, -1) is a solution to $x + y = 4$.
28. Find y if (2, y) satisfies $3x + y = 9$.
29. Find x if (x, 4) satisfies $2x - y = 6$.
30. Find y if (5, y) satisfies $y = -x + 2$.
31. Find x if (x, 7) satisfies $y = 3x - 2$.



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32. Find y if $(-2, y)$ satisfies $y = 4x + 3$.
33. Find x if $(x, -4)$ satisfies $x - y = 1$.
34. Find y if $(0, y)$ satisfies $y = 2x + 5$.
35. Find x if $(x, 0)$ satisfies $2x + y = 8$.
36. Find y if $(7, y)$ satisfies $2x - y = 8$.
37. Find x if $(x, 2)$ satisfies $y = -x + 4$.
38. Find y if $(4, y)$ satisfies $x + y = 10$.
39. Find x if $(x, -2)$ satisfies $y = -3x + 4$.
40. Find y if $(-1, y)$ satisfies $y = x + 5$.
41. Is $(2, -2)$ a solution to $y = x - 4$?
42. Is $(2, 3)$ a solution to $x + 2y = 8$?
43. Find x if $(x, 5)$ satisfies $x + 2y = 14$.
44. Is $(4, 3)$ a solution to $y = (\frac{1}{2})x + 1$?
45. Find y if $(8, y)$ satisfies $y = \frac{x}{2} - 1$.
46. Is $(-2, -6)$ a solution to $y = 3x$?
47. Find x if $(x, -9)$ satisfies $y = 3x$.
48. Is $(2, 4)$ a solution to $4x + y = 12$?
49. Find y if $(1, y)$ satisfies $y = -4x + 5$.
50. Is $(3, 0)$ a solution to $x - 2y = 3$?