



Math Worksheet for 8th Grade

Equations with parentheses

Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

1. $3(x + 4) = 21$
2. $2(x - 5) = 14$
3. $5(2x + 1) = 35$
4. $-4(x - 2) = 12$
5. $6 - 2(x + 3) = 0$
6. $4(x + 2) + 3 = 23$
7. $2(x + 3) = x + 9$
8. $3(x - 4) + 2x = 5$
9. $(x + 5)/2 = 7$
10. $(\frac{1}{3})(9x - 6) = 6$
11. $5 - (x + 2) = 1$
12. $2[3(x - 1)] = 12$
13. $-2(x + 4) + 3 = -11$
14. $7(x - 2) = 2(3x + 1)$
15. $4(x + 1) - 2(x - 3) = 10$
16. $(3x + 2) - (x - 4) = 10$
17. $8 - 3(x + 2) = 2x - 1$
18. $(2x - 1)/4 = 3$
19. $5[2(x + 3) - x] = 25$
20. $3(x + 2) + 4(x - 1) = 20$
21. $9 - (2x + 5) = x + 1$
22. $-3[2x - (x + 4)] = 9$
23. $(x/2) + 3(x - 2) = 10$
24. $4(x - 3) = 2x + 8$
25. $2(x + 5) - 3(x - 2) = 4$
26. $7 - 2(x - 4) = 3(x + 1)$
27. $(4x + 1)/2 - (x - 3) = 5$
28. $-5(x + 2) = 3x - 10$
29. $3[2(x + 1) - (x - 2)] = 18$
30. $(5 - x)/3 + x = 4$
31. $2(x + 4) + 3(2x - 1) = 1$
32. $(x - 2) - 2(x + 3) = -7$



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33. $6 - [2(x - 1) + x] = 0$

34. $4[(x + 2)/2] = 3x + 4$

35. $-2[3 - (x + 1)] = 8$

36. $2x + 3 = 4 - (x - 1)$

37. $5(x - 4) + 2 = 3(x + 6) - 4$

38. $(\frac{3}{4})(4x - 8) = 6$

39. $2[x - (2x - 3)] = 5$

40. $(x + 3)/5 + (2x - 5)/5 = 3$

41. Word: Three times the quantity $(x + 4)$ equals twice x plus 18. Solve for x .

42. Word: Sam has $2(x + 5)$ marbles. After giving away 6, he has 10. How many marbles did he start with? (Find x and the starting number of marbles.)

43. Word: The perimeter of a rectangle is $2(l + w)$. If $l = 3x - 2$ and $w = x + 4$ and the perimeter is 40, find x .

44. Word: A school buys 5 boxes with $(x + 6)$ pencils each. After distributing 20 pencils, 45 remain. Find x .

45. $0 = 2(x + 3) - (x + 6)$

46. $3 - (\frac{1}{2})(x + 4) = 5$

47. $(7x - 5) - 2(3x + 1) = -9$

48. $(x - 7)/4 - (x + 1)/2 = 1$

49. Word: A taxi charges a base fare of \$3 plus \$2 times $(x - 1)$ for additional miles after the first. If the total fare is \$11, find x .

50. $4 - 3(x + 2) = -2(x - 1)$