



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

# Math Worksheet for 7th Grade

## The distributive property & equivalent expressions

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

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

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

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### Questions

1. Expand:  $3(x + 4)$
2. Expand:  $5(x - 2)$
3. Expand:  $2(3x + 1)$
4. Expand:  $4(2x - 5)$
5. Expand:  $6(x + 0)$
6. Simplify:  $x(3 + 2)$
7. Expand:  $-2(x + 6)$
8. Expand:  $-3(2x - 4)$
9. Expand:  $10(x - 3)$
10. Expand:  $2(x + 7)$
11. Expand:  $9(x - 1)$
12. Expand:  $3(4x + 2)$
13. Expand:  $5(2x - 3)$
14. Expand:  $-4(x - 5)$
15. Expand:  $-6(2x + 1)$
16. Expand:  $7(x - 4)$
17. Expand:  $-1(3x + 9)$
18. Factor using the distributive property:  $6x + 12$
19. Factor:  $9x - 27$
20. Factor:  $8x + 4$
21. Factor:  $5x + 15$
22. Factor:  $12x - 18$
23. Factor:  $14x + 7$
24. Factor:  $-6x + 18$
25. Factor:  $-9x - 27$
26. Factor:  $3x + 6$
27. Factor:  $4x - 12$
28. Factor:  $15x + 30$
29. Factor:  $2x - 8$
30. Factor:  $16x - 24$
31. Factor:  $7x + 14$



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32. Factor:  $-4x - 8$
33. Simplify:  $-1(x + 5)$
34. Simplify:  $-(2x - 7)$
35. Simplify:  $-3(x - 4)$
36. Simplify:  $-2(3x + 5)$
37. Simplify:  $4 - (x + 2)$
38. Simplify:  $(x - 3) - 2x$
39. Write as a product:  $-5x + 10$
40. Write as a product:  $6 - 2x$
41. Simplify:  $-2(x - 3) + 4$
42. Simplify:  $3x - (2x + 5)$
43. Simplify:  $-(-3x + 9)$
44. Are these equivalent:  $4(x - 2)$  and  $4x - 8$ ? ( $\frac{Yes}{No}$ )
45. Are these equivalent:  $-3(x + 2)$  and  $-3x - 6$ ? ( $\frac{Yes}{No}$ )
46. Simplify:  $-4(2x - 1) + 8$
47. Simplify:  $2(-x + 5) - 4$
48. Factor:  $-7x + 14$
49. Simplify:  $-(2x) + (-3)(x - 1)$
50. Simplify:  $5 - (3x + 2) + 2x$