

Name _____

Math 7: Combining Like Terms

1. Are the following like terms? $2a$ and $-7a$ _____

2. Are the following like terms? $10n^2$ and $7n$ _____

3. Are the following like terms? $9xy$ and $8yx$ _____

4. Are the following like terms? $5x^4y$ and $8y^4x$ _____

5. Are the following like terms? $6x^4y$ and $10yx^4$ _____

6. Simplify: $4x + 5x$ _____

7. Simplify: $9a + 4a + a$ _____

8. Simplify: $6x - 5x$ _____

9. Simplify: $4x - 10x - 9x$ _____

10. Simplify: $-9m - 6m$ _____

11. Simplify: $3.8y + 1.6y$ _____

12. Simplify: $11.7a - 8.7a$ _____

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13. Fill in the blank to make the expression true. $4m + \underline{\hspace{2cm}} = 11m$

14. Simplify: $3.2x + 2.1y + 6.6x$ _____

15. Simplify: $-10p^2 + 14p^2$ _____

16. Simplify: $10x^9 - 9x^9 + 7x^9$ _____

17. Simplify: $9pq + (-12pq)$ _____

18. Simplify: $2pq - (-6pq)$ _____

19. Simplify: $-8pq + (-5pq)$ _____

20. Fill in the blank. $3m + 4 + 3m + 4 + 3m + 4 = \underline{\hspace{2cm}}m + 12$

21. Fill in the blanks. $5b + 7s + 8w + 7b + 2s = 9\underline{\hspace{1cm}} + 12\underline{\hspace{1cm}} + \underline{\hspace{1cm}}w$

22. Simplify: $-9x - 10x - 9 + 6$ _____

23. Simplify: $10x + 5y - 6y - 6x$ _____

24. Simplify: $-10m^2 + 9m + 20m^2 - 3m^2$ _____

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25. Simplify: $7p - 2q + 7 - 10p + 2q - 9$ _____

26. Simplify: $10p - 6q + 10 - 8p + 6q - 4$ _____

27. Simplify: $2z^9 + 10 + 7xy + 8z^9 + 9 + 4yx$ _____

28. Simplify: $5xy + 5p + 4 + 2yx + 5p$ _____

29. Simplify: $7m^2 - 8n^2 - 5n^2 - 2 + 9m^2 + 6$ _____

30. Simplify: $2r^3 + 6 + 7xy - r^3 - 10 - 8yx$ _____

31. Simplify: $9z^6 + 2z^3 + 4z^3 + 4z^6$ _____

32. Simplify: $11z^{15} + 2z^9 + 7z^9 + 2z^{15}$ _____

33. Simplify: $6p^7 + 4p^8 - 5p^8 - 7p^7$ _____

34. Simplify: $2zxy + 5xzy + 9xyz + 10xy + 4yx$ _____

35. Simplify: $7xzy - 3xyz - 9zxy + 10yx - 4xy$ _____