1. **Simplify: $-4x + 9 - 8x + 8$**

   $(-4x - 8x) + (9 + 8)$

   **Answer: $-12x + 17$**

2. **Simplify: $-a + 2b + 8a + 2b$**

   $(-a + 8a) + (2b + 2b)$

   **Answer: $7a + 4b$**

3. **Simplify: $-8x - 9x - 2$**

   $(-8x - 9x) + (-2)$

   **Answer: $-17x - 2$**

4. **Simplify: $7y - 8 - 2y + 8 - 5$**

   $(7y - 2y) + (-8 + 8 - 5)$

   **Answer: $5y - 5$**

5. **Simplify: $4m + 3n - 2m$**

   $(4m - 2m) + (3n)$

   **Answer: $2m + 3n$**

6. **Simplify: $9x^2 - x + 2x^2 - 3x$**

   $(9x^2 + 2x^2) + (-x - 3x)$

   **Answer: $11x^2 - 4x$**

7. **Simplify: $3p + 3 + 6p$**

   $(3p + 6p) + (3)$

   **Answer: $9p + 3$**

8. **Simplify: $6x + 9 + 7x + 1$**

   $(6x + 7x) + (9 + 1)$

   **Answer: $13x + 10$**

9. **Simplify: $-3a - 4b + 5a - 5b$**

   $(-3a + 5a) + (-4b - 5b)$

   **Answer: $2a - 9b$**

10. **Simplify: $7x - 9x + 3$**

    $(7x - 9x) + (3)$

    **Answer: $-2x + 3$**

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**11. Simplify: $y + 3 + 9y - 1 - 5$**

$(y + 9y) + (3 - 1 - 5)$

**Answer: $10y - 3$**

**12. Simplify: $-6m - 9n + 9m$**

$(-6m + 9m) + (-9n)$

**Answer: $3m - 9n$**

**13. Simplify: $-3x^2 + x - 8x^2 + 4x$**

$(-3x^2 - 8x^2) + (x + 4x)$

**Answer: $-11x^2 + 5x$**

**14. Simplify: $4p + 9 + 8p$**

$(4p + 8p) + (9)$

**Answer: $12p + 9$**

**15. Simplify: $-4x + 8 - 6x - 7$**

$(-4x - 6x) + (8 - 7)$

**Answer: $-10x + 1$**

**16. Simplify: $-5a + 4b + 2a + 9b$**

$(-5a + 2a) + (4b + 9b)$

**Answer: $-3a + 13b$**

**17. Simplify: $-3x - 4x + 1$**

$(-3x - 4x) + (1)$

**Answer: $-7x + 1$**

**18. Simplify: $y + 9 + y + 3 - 5$**

$(y + y) + (9 + 3 - 5)$

**Answer: $2y + 7$**

**19. Simplify: $4m - 3n - 9m$**

$(4m - 9m) + (-3n)$

**Answer: $-5m - 3n$**

**20. Simplify: $7x^2 + 5x + 3x^2 + 9x$**

$(7x^2 + 3x^2) + (5x + 9x)$

**Answer: $10x^2 + 14x$**

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**21. Simplify: $4x^2 - 3x + 2x^2 + 7 + 5x - 9$ ★ challenge**

$(4x^2 + 2x^2) + (-3x + 5x) + (7 - 9)$

**Answer: $6x^2 + 2x - 2$**

**22. Simplify: $6ab - 2a - 4ab + 3b + 5a$ ★ challenge**

$(6ab - 4ab) + (-2a + 5a) + (3b)$

**Answer: $2ab + 3a + 3b$**

**23. Simplify: $3x^2 + x - 3x^2 - 8x + 2$ ★ challenge**

$(3x^2 - 3x^2) + (x - 8x) + (2)$

**Answer: $-7x + 2$**

**24. Simplify: $2y^3 - 5y + 4y^3 + 5y - 1$ ★ challenge**

$(2y^3 + 4y^3) + (-5y + 5y) + (-1)$

**Answer: $6y^3 - 1$**

**25. Can $3x + 2$ be combined into $5x$? Explain. ★ challenge**

No

**Answer: No. 3x and 2 are not like terms, so 3x + 2 is already simplified.**

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