Algebra 1 Name_____

Distributive Property and Combining like terms Date_____ Period____

Simplify each expression.

1) $4r + r$

2) $-8x - 2x$

3) $x + 7 - 2x$

4) $-3x + 3x$

5) $4b + 10 + b + 4$

6) $6(1 + 2x) + 1$

7) $-4x - 2(5x - 3)$

8) $-6n - 5(n + 8)$

9) $1 - 8(r + 8)$

10) $-6(n + 7) - 6$

11) $5v(v - 1) + 7(1 + 4v)$

12) $-8(-6b + 1) - 6(b + 8)$

13) $-4(n - 8) - 7n(n - 1)$

14) $4x(6x - 4) - 7(6 - 8x)$

15) $-6(1 - 8x) + 5(1 + 6x)$

16) $-m(5m - 3) - 8(-8m + 5)$

17) $-6x - 6x$

18) $3 + 6x + 3$

19) $7x - 4x$

In problems 20 – 23, decide if the distributive property was applied correctly. Explain your answer.

20. $4(2x + 1) = 8x + 1$ **YES** or **NO**

21. $5(3x - 2) = 15x + 10$ **YES** or **NO**

22. $7(3x - 1) = 21x - 7$ **YES** or **NO**

23. $3(2 - 6x) = -18x + 6$ **YES** or **NO**

24. Suppose one of our classmates was absent from class today. She will need to know what the distributive property means. Look over your work on this activity and briefly describe the distributive property below.