

Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples		
Distributive Property Recall: $a(b + c) =$ or $a(b - c) =$	1. $7(x + 4)$	2. $2(b - 3)$	3. $-4(y + 3)$
	4. $-5(m - 2)$	5. $-(y - 9)$	6. $8(4 - b)$
	7. $-4(-w - 10)$	8. $5(2m - 3)$	9. $-3(2x - 4)$
	10. $3(m + n)$	11. $x(y + 4)$	12. $d(c - 4)$
	13. $6a(b + 2c)$	14. $2(x - y + 8)$	15. $x(2y - 5z + 1)$
	16. $\frac{1}{4}(8x - 4)$	17. $\frac{1}{6}\left(\frac{3}{5}x + 18\right)$	18. $-\frac{1}{8}\left(\frac{4}{5}x - 24\right)$
Distribute AND Combine!	To simplify an expression means to ensure there are no parentheses and no like terms . In order to do this, distribute first (if needed), then combine like terms.		
Examples	19. $8(2x - 3) - 6x$	20. $9(2k - 4) - 2(7k - 12)$	
	21. $10 - (y - 6) - y$	22. $6 + 8(4w - 7) - (2w + 1)$	
	23. $\frac{9}{4}\left(\frac{10}{3}x - 4\right) - \frac{1}{4}(2x - 8)$	24. $\frac{7}{8}\left(\frac{4}{5}x + 16\right) + \frac{3}{5}\left(\frac{1}{2}x - 10\right)$	