Algebra I Review Unit 2 page 1

Complete the table for each input-output chart shown.

	1.	2.	3.	4.
Input	x + 8 = 13	x - 9 = 7	6x = 30	$\frac{x}{3} = 9$
↓ Operation	subtract 8 from both sides	add 9 to both sides	divide both sides by 6	multiply both sides by 3
Output				

	5.	6.	7.	8.
Input	x + 9 = 12	x - 3 = 5	$9\mathbf{x} = 54$	$\frac{\mathbf{X}}{7} = 3$
↓ Operation				
Output				

	9.	10.	11.	12.
Input	6x + 7 = 37	3x+6=24	5x-9=31	$4\mathbf{x}-6=22$
First Operation	subtract 7 from both sides		add 9 to both sides	
Output				
Second Operation	divide both sides by 6		divide both sides by 5	
Output				

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Solve the following equations. Show your steps neatly organized.

 13. x + 8 = 11 14. x - 7 = 2 15. 5x = 35 16. $\frac{x}{7} = 7$

 17. 3x + 6 = 24 18. 8x - 12 = 20 19. 7x + 21 = 56

 20. 4x - 24 = 8 21. 6x + 9 = 33 22. 5x - 25 = 35

23. 9x + 10 = 5x + 38 24. 8x - 15 = 5x + 12 25. 7x + 15 = x + 33

26.
$$2(3x + 7) + 4(x - 3) = 32$$
 27. $5(2x - 7) = 3(x + 7)$

28. 2x + 3(3x - 1) = 3029. 6(2x + 4) - 3x = 60

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Write an algebraic expression for each of the follow	wing. In each case, use N for the number.			
30. six more than the number :	31. nine less than the number :			
32. three times the number :	33. the number divided by two :			
34. four more than two times the number :				
35. seven less than five times the number :				
Write an algebraic expression for each of the following. In each case, use J for Jimøs age now.				
36. Jimøs age next year :	37. Jimøs age four years ago :			
38. Jimøs age in three years age :	39. three times Jimøs age :			
Write an algebraic expression for each of the follow 40. the value in cents of x nickels :	wing.			

41. the value in cents of y dimes : _____