Algebra I   Worksheet #2   Unit 2 page 1   _____

Complete the table for each input-output chart shown.

	1.	2.	3.	4.
Input	$x + 3 = 8$	$x - 6 = 2$	$6x = 48$	$\frac{x}{7} = 4$
Operation	subtract 3 from both sides	add 6 to both sides	divide both sides by 6	multiply both sides by 7
Output				

	5.	6.	7.	8.
Input	$x + 35 = 57$	$x - 26 = 14$	$5x = 200$	$\frac{x}{8} = 32$
Operation	subtract 35 from both sides	add 26 to both sides	divide both sides by 5	multiply both sides by 8
Output				

	9.	10.	11.	12.
Input	$x + 9 = 14$	$x - 6 = 4$	$6x = 42$	$\frac{x}{3} = 3$
Operation				
Output				

	13.	14.	15.	16.
Input	$x + 23 = 81$	$x - 45 = 12$	$7x = 350$	$\frac{x}{12} = 3$
Operation				
Output				

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Solve the following equations.

17. $x + 8 = 17$ 　　　　18. $x - 6 = 6$ 　　　　19. $9x = 63$ 　　　　20. $\frac{x}{7} = 5$

21. $x + 51 = 96$ 　　　　22. $x - 37 = 23$ 　　　　23. $8x = 104$ 　　　　24. $\frac{x}{8} = 21$

Write an algebraic expression for each of the following.

25. the value in cents of d dimes : _____ 　　　　26. the value in cents of n nickels : _____

27. the value in cents of q quarters : _____

Write an algebraic expression for each of the following. In each case, use x for the number.

28. seven more than the number : _____ 　　　　29. eight less than the number : _____

30. five times the number : _____

Write an algebraic expression for each of the following.

31. A team lost x games. They won two more games than they lost. They won _____ games.

32. A team lost x games. They won twice as many games as they lost. They won _____ games.

33. A team played 12 games. They lost x games. They won _____ games.

34. A team lost x games. They won two less games than they lost. They won _____ games.

35. A team lost x games. They won half as many games as they lost. They won _____ games.

36. A team played 20 games. They won x games. They lost _____ games.