

Algebra I Worksheet #1 Unit 2 page 1

Complete the table for each input-output chart shown.

	1.	2.	3.	4.
Input	$x + 6 = 9$	$x - 3 = 4$	$4x = 32$	$\frac{x}{2} = 6$
↓				
Operation	subtract 6 from both sides	add 3 to both sides	divide both sides by 4	multiply both sides by 2
↓				
Output				

	5.	6.	7.	8.
Input	$x + 11 = 35$	$x - 15 = 23$	$7x = 133$	$\frac{x}{9} = 18$
↓				
Operation	subtract 11 from both sides	add 15 to both sides	divide both sides by 7	multiply both sides by 9
↓				
Output				

	9.	10.	11.	12.
Input	$x + 5 = 8$	$x - 7 = 2$	$3x = 27$	$\frac{x}{6} = 5$
↓				
Operation				
↓				
Output				

	13.	14.	15.	16.
Input	$x + 18 = 43$	$x - 83 = 15$	$6x = 228$	$\frac{x}{15} = 12$
↓				
Operation				
↓				
Output				

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Solve the following equations.

17. $x + 7 = 12$

18. $x - 4 = 5$

19. $4x = 28$

20. $\frac{x}{5} = 3$

21. $x + 25 = 43$

22. $x - 42 = 53$

23. $5x = 95$

24. $\frac{x}{6} = 18$

25. $x + 9 = 3$

26. $x - 9 = -3$

27. $12x = 252$

28. $\frac{x}{8} = 16$

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

29. five more than the number : _____

30. eight less than the number : _____

31. nine times the number : _____

32. the number divided by eight : _____

Write an algebraic expression for each of the following. In each case, use B for Bill's age now.

33. Bill's age in three years : _____

34. Bill's age five years ago : _____

35. six times Bill's age : _____

Write an algebraic expression for each of the following. In each case, use M for Mary's age now.

36. five times Mary's age : _____

37. Mary's age in ten years : _____

38. Mary's age seven years ago : _____