

Algebra I Worksheet #4 Unit 2 page 1

Complete the table for each input-output chart shown.

	1.	2.	3.	4.
Input	$2x + 5 = 11$	$4x + 3 = 27$	$3x - 5 = 16$	$6x - 3 = 39$
↓ First Operation	subtract 5 from both sides	subtract 3 from both sides	add 5 to both sides	add 3 to both sides
↓ Output				
↓ Second Operation	divide both sides by 2	divide both sides by 4	divide both sides by 3	divide both sides by 6
↓ Output				

	5.	6.	7.	8.
Input	$3x + 7 = 31$	$7x + 4 = 25$	$8x - 3 = 37$	$9x - 6 = 12$
↓ First Operation	subtract 7 from both sides		add 3 to both sides	
↓ Output				
↓ Second Operation				
↓ Output				

Solve the following equations. Show your steps.

9. $6x - 3 = 15$

10. $4x + 2 = 26$

11. $5x - 10 = 35$

Algebra I Worksheet #4 Unit 2 page 2

Solve the following equations. Show your steps.

12. $2x + 9 = 23$

13. $8x + 20 = 36$

14. $7x - 14 = 21$

15. $9x - 36 = 36$

16. $12x + 18 = 66$

17. $4x - 10 = 34$

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

18. three times the number: _____

19. seven more than three times the number: _____

20. four times the number:: _____

21. three less than four times the number:: _____

22. five more than twice the number:: _____

23. six less than seven times the number:: _____

24. eight more than six times the number:: _____

25. nine less than twice the number:: _____