

Algebra I Worksheet #2 Unit 4 page 1 _____

Complete the table for each input-output chart shown to solve for x.

	1.	2.	3.	4.
Input	$3x + 4 = 25$	$3x + 4 = k$	$3x + n = k$	$ax + n = k$
↓ First Operation	subtract 4 from both sides	subtract 4 from both sides	subtract n from both sides	subtract n from both sides
↓ Output				
↓ Second Operation	divide both sides by 3	divide both sides by 3	divide both sides by 3	divide both sides by a
↓ Output				

	5.	6.	7.	8.
Input	$4x + 6 = 34$	$4x + 6 = c$	$4x + b = c$	$ax + b = c$
↓ First Operation				
↓ Output				
↓ Second Operation				
↓ Output				

Solve for x.

9. $5x + 15 = 45$ 10. $5x + 15 = p$ 11. $5x + k = p$ 12. $nx + k = p$

13. $cx + 2 = k$ 14. $2x + n = d$ 15. $bx + 7 = 11$ 16. $px + c = 3$

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Complete the table for each input-output chart shown to solve for x.

	17.	18.	19.	20.
Input	$3x - 6 = 18$	$3x - 6 = g$	$3x - n = g$	$px - n = g$
↓ First Operation	add 6 to both sides	add 6 to both sides	add n to both sides	add n to both sides
↓ Output				
↓ Second Operation	divide both sides by 3	divide both sides by 3	divide both sides by 3	divide both sides by p
↓ Output				

	21.	22.	23.	24.
Input	$6x - 3 = 27$	$6x - 3 = c$	$6x - b = c$	$ax - b = c$
↓ First Operation				
↓ Output				
↓ Second Operation				
↓ Output				

Solve for x.

25. $4x - 10 = 26$ 26. $4x - 10 = k$ 27. $4x - n = k$ 28. $ax - n = k$

29. $bx - 5 = t$ 30. $3x - p = c$ 31. $tx - 3 = 5$ 32. $px - b = 2$