

General Algebra 1 CWS #2 Chapter 2 page 1

Complete the table for each input-output chart shown.

	1.	2.	3.	4.
Input	$4x + 6 = 18$	$5x + 7 = 32$	$2x - 9 = 7$	$3x - 5 = 16$
↓ First Operation	subtract 6 from both sides	subtract 7 from both sides	add 9 to both sides	add 5 to both sides
↓ Output				
↓ Second Operation	divide both sides by 4	divide both sides by 5	divide both sides by 2	divide both sides by 3
↓ Output				

	5.	6.	7.	8.
Input	$6x + 15 = 21$	$3x + 8 = 20$	$7x - 5 = 30$	$4x - 18 = 10$
↓ First Operation	subtract 15 from both sides		add 5 to both sides	
↓ Output				
↓ Second Operation				
↓ Output				

Solve the following equations. Show your steps.

9. $2x - 9 = 21$

10. $6x + 15 = 33$

11. $4x - 22 = 62$

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Solve the following equations. Show your steps.

12. $7x + 14 = 56$

13. $12x + 30 = 66$

14. $6x - 21 = 27$

15. $4x - 34 = 14$

16. $2x + 15 = 27$

17. $8x - 28 = 36$

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

18. five times the number: _____

19. three more than five times the number: _____

20. six times the number:: _____

21. five less than six times the number:: _____

22. ten more than four times the number:: _____

23. two less than nine times the number:: _____

24. fifteen more than twice the number:: _____

25. twenty less than three times the number:: _____