

		Name Date	
1.	Solve for x: 3x + 6 - x + 8 = 16		
2.	Solve for x: 7(4 - 2x) + 16 + 2x = 12		
3.	Solve for x: 4(3x + 2) - 2(3x - 3) = 0		
4.	y = 6. Solve 4(x + 2y) - 4y = 12		

- 5. Twenty-three less than 6 times the quantity of a number (x) decreased four equals seven. Find the number.
- 6. List the steps you would take to solve this equation. Your steps should describe what you would do, for example: "Combine Like Terms".
 6(2x 12) + 18 + 4x = 11

Step 1	
Step 2	
Step 3	

7. It costs \$5 to become a new member of a book club. There is a \$10 charge per book ordered and tax is 7% on the books and the membership fee. Shipping and handling is free for all members. How many books were purchased (x) by a new member if the total bill comes to \$58.85?



 Expression
 Solution

 (5 + 10x)1.07 = 58.85

8. You are twice as old as your brother. You are 7 years older than your brother. How old is your brother (b)?

Expression	Solution

9. Solve for z: 2(z + 2) - 5 = 7

MasterMath	7
	1

IVIAISLGI IVIALI I	Name Date	
1. Solve for x: 3x + 6 - x + 8 = 16		x = 1
2. Solve for x: 7(4 - 2x) + 16 + 2x = 12		x = 2 ² / ₃
3. Solve for x: 4(3x + 2) - 2(3x - 3) = 0		x = -2 ½
4. y = 6. Solve 4(x + 2y) - 4y = 12		x = -3

- 5. Twenty-three less than 6 times the quantity of a number (x) decreased four equals seven. Find the number.
- 6. List the steps you would take to solve this equation. Your steps should describe what you would do, for example: "Combine Like Terms".

6(2x - 12) + 18 + 4x = 11

Step 1	Use Distributive Property
Step 2	Combine Like Terms
Step 3	Isolate the Variable

7. It costs \$5 to become a new member of a book club. There is a \$10 charge per book ordered and tax is 7% on the books and the membership fee. Shipping and handling is free for all members. How many books were purchased (x) by a new member if the total bill comes to \$58.85?

Expression	Solution
(5 + 10x)1.07 = 58.85	x = 5



8. You are twice as old as your brother. You are 7 years older than your brother. How old is your brother (b)?

Expression	Solution
2b - 7 = b	b = 7

9. Solve for z: 2(z + 2) - 5 = 7

z	=	3	

x = 9