

Algebra I Lesson #3 Unit 2
Class Worksheet #3
For Worksheet 7

Algebra I Solving Equations with Variables on Both Sides

	1.	2.	3.	4.
Input	$8x + 4 = 5x + 22$	$9x + 6 = 6x + 30$	$5x + 10 = x + 42$	$7x + 5 = 5x + 13$
↓ First Operation	subtract $5x$ from both sides	subtract $6x$ from both sides	subtract x from both sides	
↓ Output				
↓ Second Operation	subtract 4 from both sides	subtract 6 from both sides		
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↓ Output	3x			
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↓ Output	$3x + 4 =$			
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↓ Output	$3x + 4 = 22$	$3x + 6 = 30$	$4x + 10 = 42$	
↓ Second Operation	subtract 4 from both sides	subtract 6 from both sides	Subtract 10 from both sides	
↓ Output	$3x = 18$	$3x = 24$	$4x = 32$	
↓ Third Operation	divide both sides by 3	divide both sides by 3	divide both sides by 4	
↓ Output	$x = 6$	$x = 8$	$x =$	

Algebra I Solving Equations with Variables on Both Sides

	1.	2.	3.	4.
Input	$8x + 4 = 5x + 22$	$9x + 6 = 6x + 30$	$5x + 10 = x + 42$	$7x + 5 = 5x + 13$
↓ First Operation	subtract $5x$ from both sides	subtract $6x$ from both sides	subtract x from both sides	
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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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↓ Output	$3x = 18$	$3x = 24$	$4x = 32$	$2x = 8$
↓ Third Operation	divide both sides by 3	divide both sides by 3	divide both sides by 4	divide both sides by 2
↓ Output	$x = 6$	$x = 8$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

	1.	2.	3.	4.
Input	$8x + 4 = 5x + 22$	$9x + 6 = 6x + 30$	$5x + 10 = x + 42$	$7x + 5 = 5x + 13$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract x from both sides	Subtract 5x from both sides
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↓ Third Operation	divide both sides by 3	divide both sides by 3	divide both sides by 4	divide both sides by 2
↓ Output	$x = 6$	$x = 8$	$x = 8$	$x =$

Algebra I Solving Equations with Variables on Both Sides

	1.	2.	3.	4.
Input	$8x + 4 = 5x + 22$	$9x + 6 = 6x + 30$	$5x + 10 = x + 42$	$7x + 5 = 5x + 13$
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↓ Output	$3x = 18$	$3x = 24$	$4x = 32$	$2x = 8$
↓ Third Operation	divide both sides by 3	divide both sides by 3	divide both sides by 4	divide both sides by 2
↓ Output	$x = 6$	$x = 8$	$x = 8$	$x = 4$

Algebra I Solving Equations with Variables on Both Sides

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↓ Third Operation	divide both sides by 3	divide both sides by 3	divide both sides by 4	divide both sides by 2
↓ Output	$x = 6$	$x = 8$	$x = 8$	$x = 4$

Algebra I Solving Equations with Variables on Both Sides

5.

6.

7.

8.

Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output				
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output				
↓ Third Operation	divide both sides by 2			
↓ Output				

Algebra I Solving Equations with Variables on Both Sides

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6.

7.

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output				
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output				
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Algebra I Solving Equations with Variables on Both Sides

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	2x			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output				
↓ Third Operation	divide both sides by 2			
↓ Output				

Algebra I Solving Equations with Variables on Both Sides

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↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 =$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output				
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Algebra I Solving Equations with Variables on Both Sides

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↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
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Algebra I Solving Equations with Variables on Both Sides

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↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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↓ Output	$2x - 3 = 11$			
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↓ Output	$2x =$			
↓ Third Operation	divide both sides by 2			
↓ Output				

Algebra I Solving Equations with Variables on Both Sides

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
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↓ Output	$2x - 3 = 11$			
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↓ Output				

Algebra I Solving Equations with Variables on Both Sides

5.

6.

7.

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
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Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output	$2x = 14$			
↓ Third Operation	divide both sides by 2			
↓ Output				

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output	$2x = 14$			
↓ Third Operation	divide both sides by 2			
↓ Output	$x =$			

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output	$2x = 14$			
↓ Third Operation	divide both sides by 2			
↓ Output	$x = 7$			

Algebra I Solving Equations with Variables on Both Sides

5.

6.

7.

8.

Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
↓ Output	$2x - 3 = 11$			
↓ Second Operation	add 3 to both sides	add 6 to both sides		
↓ Output	$2x = 14$			
↓ Third Operation	divide both sides by 2			
↓ Output	$x = 7$			

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
Output	$2x - 3 = 11$			
Second Operation	add 3 to both sides	add 6 to both sides		
Output	$2x = 14$			
Third Operation	divide both sides by 2			
Output	$x = 7$			

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
Output	$2x - 3 = 11$	$3x$		
Second Operation	add 3 to both sides	add 6 to both sides		
Output	$2x = 14$			
Third Operation	divide both sides by 2			
Output	$x = 7$			

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
Output	$2x - 3 = 11$	$3x - 6 =$		
Second Operation	add 3 to both sides	add 6 to both sides		
Output	$2x = 14$			
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Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
Output	$2x - 3 = 11$	$3x - 6 = 15$		
Second Operation	add 3 to both sides	add 6 to both sides		
Output	$2x = 14$			
Third Operation	divide both sides by 2			
Output	$x = 7$			

Algebra I Solving Equations with Variables on Both Sides

5.

6.

7.

8.

Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
↓ First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	
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Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Algebra I Solving Equations with Variables on Both Sides

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

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Output	$x = 7$	$x = 7$	$x = 8$	

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

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Output	$2x - 3 = 11$	$3x - 6 = 15$	$3x - 6 = 18$	$7x - 14 = 21$
Second Operation	add 3 to both sides	add 6 to both sides	Add 6 to both sides	Add 14 to both sides
Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x =$
Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

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First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	Subtract x from both sides
Output	$2x - 3 = 11$	$3x - 6 = 15$	$3x - 6 = 18$	$7x - 14 = 21$
Second Operation	add 3 to both sides	add 6 to both sides	Add 6 to both sides	Add 14 to both sides
Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x = 35$
Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
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↓ Second Operation	add 3 to both sides	add 6 to both sides	Add 6 to both sides	Add 14 to both sides
↓ Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x = 35$
↓ Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
↓ Output	$x = 7$	$x = 7$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

	5.	6.	7.	8.
Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
First Operation	subtract 5x from both sides	subtract 6x from both sides	subtract 2x from both sides	Subtract x from both sides
Output	$2x - 3 = 11$	$3x - 6 = 15$	$3x - 6 = 18$	$7x - 14 = 21$
Second Operation	add 3 to both sides	add 6 to both sides	Add 6 to both sides	Add 14 to both sides
Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x = 35$
Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	
Output	$x = 7$	$x = 7$	$x = 8$	

Algebra I Solving Equations with Variables on Both Sides

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Second Operation	add 3 to both sides	add 6 to both sides	Add 6 to both sides	Add 14 to both sides
Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x = 35$
Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	divide both sides by 7
Output	$x = 7$	$x = 7$	$x = 8$	

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	divide both sides by 7
Output	$x = 7$	$x = 7$	$x = 8$	$x =$

Algebra I Solving Equations with Variables on Both Sides

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Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	divide both sides by 7
Output	$x = 7$	$x = 7$	$x = 8$	$x = 5$

Algebra I Solving Equations with Variables on Both Sides

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Input	$7x - 3 = 5x + 11$	$9x - 6 = 6x + 15$	$5x - 6 = 2x + 18$	$8x - 14 = x + 21$
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Algebra I Solving Equations with Variables on Both Sides

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Second Operation	add 3	add 6	add 6	add 14
Output	$2x = 14$	$3x = 21$	$3x = 24$	$7x = 35$
Third Operation	divide both sides by 2	divide both sides by 3	divide both sides by 3	divide both sides by 7
Output	$x = 7$	$x = 7$	$x = 8$	$x = 5$

Good luck on worksheet #7 !!

