Name:

Name:

3.5 Solving with Combining Like Terms and Distributing Bell Work

Simplify using the Distributive Property.

- 1. 3(2x + 5) 2. -4(3x + 7)
- 3. -6(x-7) 4. 3(3x-8)
- 5. $\frac{1}{3}(15x-21)$ 6. $\frac{1}{2}(6x+22)$

Distribute and Combine.

7. 10(3x-5) - 2x 8. -4(x+5) - 12x

Algebra 1 Date:

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Algebra 1 Date:

Name:

3.5 Solving with Combining Like Terms and Distributing Notes

• In order to solve for the variable (letter), combine the like terms first.

2.

4.

- Add or Subtract
- Multiply or Divide

Solve for x.

1.	
3x + 4x + 1 = 36	Given Problem
	Combine Like
	Terms
	Add/Subtract
	Multiply/Divide
	Answer

3.	
x + 9 - 2x = 6	Given Problem
	Combine Like Terms
	Add/Subtract
	Multiply/Divide
	Answer

12x - 3x - 15 = 48	Given Problem
	Combine Like
	Terms
	Add/Subtract
	Multiply/Divide
	Answer

4x + 20 - 3 - 6x = -13	Given Problem
	Combine Like
	Terms
	Add/Subtract
	Multiply/Divide
	Answer

Name:

3.5 Solving with Combining Like Terms and Distributing Notes

Steps to Solving Equations:

- 1. Distribute
- 2. Combine
- 3. Move the variable to one side
- 4. Add or Subtract
- 5. Multiply or Divide

5.	4(2x	+ 5)) = 24
----	------	------	--------

Distribute
Add/Subtract
Mult/Divide
Answer

7. 11(3-6y) + 6(10y + 1) = 9

Distribute
Combine
Add/Subtract
Mult/Divide
Answer

6. $\frac{1}{2}(16k - 2) = -48$

Distribute
Add/Subtract
Mult/Divide
Answer

8. 16x - (6x - 7) = 67

Distribute
Combine
Add/Subtract
Mult/Divide
Answer

2.4 Activity: Rally Coach

9.

- In Groups of 2, assign a partner A and partner B.
- Partner A will do problem #9 out loud.
- Partner B will praise and coach.
- Partner B will do problem #10 out loud.
- Partner A will praise and coach.
- Continue process until completed.

$$5(2x-5) - 7x = 25$$
 10. $8(-4x-2) + 10 = -42$

11)
$$-4(5+6m)+14=-90$$
 12) $20-5(4v-1)=-60$

13)
$$12(t+2) + 6t = 6$$
 14) $9w - 3(2w+8) = 16$

Assignment:

Closure: In complete sentences or table form, explain how to solve for x: 5(2x - 6) = 10

3.5 Solving with Combining Like Terms and Distributing Assignment

Solve the following equations. Show the WORK CORRECTLY

1.	2x - 8 + 8 - 3x = -8	Given
		Problem
		Combine
		Like
		Terms
		Add or
		Subtract
		Multiply
		or Divide
		Answer

3. 22 = 4(y - 5) + 2y	
	Distribute
	Combine
	Add or Subtract
	Mult or Divide
	Answer

2. $5x - 15 + 2x = 27$	Given Problem
	Combine Like Terms
	Add or Subtract
	Multiply or Divide
	Answer

4. 3(8n-1) + 8(n+4) = -40	
	Distribute
	Combine
	Add or
	Subtract
	Mult or
	Divide
	Answer

5. 3(x + 4) = 33

6. 53 = 2(2x + 1) + 7

7. 24 = 3(2a - 2)

9. 4 = 3a - 14

11. 8 - 5w = -37

8. 50 = 3(x + 2) + x

12.
$$\frac{n}{3} - 8 = -2$$
 13. $5 + \frac{x}{4} = 1$

14.
$$\frac{3}{4}q - 7 = 8$$
 15. $\frac{2}{3}g + 6 = -12$

16. 5c + 40 = 75 17. 17 = y - 20

18. Combine Like Terms:

8. Evaluate:

a. 7y + 2x - 2y + 3x with x = -2, y = 4

b. 3c - 4(5c + 1) for c = -2