

Name: _____

Combining Like Terms



Learning Target #5: LT 5: SWBAT solve multi-step equations by combining like terms and distribution.

Success Criteria:

Quick Review

1. Simplify if possible:
 - Combine like terms
 - Distribute.
2. Solve for variable

Quick Check...
 $-2x + 6 = 22$

Combining Like Terms Examples

Ex 1: $7x - 6 + 2x = 21$

Ex 2: $6x + 2 + 7 - 2x = 49$

You Try...

1. $3x + 4x = 49$

2. $-5 + 9n + 6 = 82$

3. $10 - 2x + 3x = 12$

Name: _____

LEARNING TARGET #5: SWBAT SOLVE MULTI-STEP EQUATIONS BY COMBINING LIKE TERMS AND DISTRIBUTION.



U2 LT5 Solving Equations with Distribution

Quick Review: Simplify and Solve

$$3x + 8x - 3 = 41$$

Simplify the Following

Ex 1: $2(x+5)$

Ex 2: $-3(4x+1)$

Ex 3: $-(x-3)$

You Try
 $6(7x+4)$

Solve the following

Ex 4: $2(x + 3) = 16$

Ex 5: $5(x + 1) + 3 = 43$

Ex 6: $-(2x - 7) + 4x = 8$



You Try...

$$7(x + 17) - 5 = 37$$

Ms. Naumann solved the following problem and got an answer of $y = 4$. Is she correct or incorrect? Explain your thinking.

$$-3(7 + y) + 4 = -4$$

$$-21 + 3y + 4 = -5$$

$$-17 + 3y = -5$$

$$3y = 12$$

$$y = 4$$

Simplify and solve the following

1. $2(x + 3) = 16$

2. $4(x - 5) = 44$

3. $-(-3x - 15) = 36$

4. $2(x + 2) = 16$

5. $3(x + 1) = 18$

6. $5(x - 2) = 30$

7. $2(x + 1) + 3x = 7$

8. $5(3x + 2) + x = 42$

9. $-6(x - 8) - 3x = 21$

10. $7(2 + x) + 1 = 36$

11. $8(6 - 2x) - 4 = -20$

12. $-4(7 + 3x) = -148$

13. $5(x + 1) + 3 = 43$

14. $3(x - 3) + 4 = 10$

15. $6(x - 2) - 5 = 37$

U2 LT5 Distribution ReviewExample 1: Simplify $5(x + 1)$ Example 2: Simplify $-2(3x - 5)$

Practice: Simplify the following

1. $7(y - 4)$

2. $2(2x + 1)$

3. $-2(x + 5)$

4. $-7(3x - 5)$

U2 LT5 Distribution ReviewExample 1: Simplify $5(x + 1)$ Example 2: Simplify $-2(3x - 5)$

Practice: Simplify the following

1. $7(y - 4)$

2. $2(2x + 1)$

3. $-2(x + 5)$

4. $-7(3x - 5)$