

WARM-UP

Practice the distributive step on the following multi-step equation:

$$4(2a + 3) = -3(a - 1) + 31$$

$$8a + 12 = -3a - (-3) + 31$$

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Step 2: Combine Like Terms

Example continued: Like terms =
Same variable
ending

$$x + 2(x + 3) = -5(x + 6) - 4$$

$$x + 2x + 6 = -5x - 30 - 4$$

$$3x + 6 = -5x - 34$$

X X X

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Do not solve, just practice the step shown above. Combine Like Terms on each side.

$$3. \quad 8x - 4x - 17 = -19x - 3x + 8 + x$$

$-19 - 3 + 1$

$$4x - 17 = -21x + 8$$

$$4. \quad 5x - 2 + 15 - 4x = 2x - 28 - 13 + 8x$$

$$1x - 13 = 10x - 41$$

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3: Move Variables and Constants to Opposite Sides

Example continued:

$$x + 2(x + 3) = -5(x + 6) - 4$$

$$x + 2x + 6 = -5x - 30 - 4$$

VARIABLE | CONSTANTS

$$3x + 6 = -5x - 34$$

$$3x + 5x = -34 - 6$$

SWITCH SIDE, SWITCH SIGN

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Do not solve, just practice the steps shown above. Move the variables and constants to opposite sides of the equals sign.

$$5. -4x - 67 = -19x - 8$$

$$19x - 11x \quad 67 - 8$$

$$6. 15x - 150 = 23x - 290$$

$$290 - 150 \quad 23x - 15x$$

$$7. -15 = 18x - 290$$

$$-18x = 15 - 290$$

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