Name _____

Build Mathematical Literacy
2-3

8th Grade
Day 10

Review the Key Concept from the lesson. Then answer the questions to help you understand how to read a Key Concept.

KEY CONCEPT

When solving multistep equations, sometimes you distribute first, and then combine like terms.

$$7(5 + 2x) + x = 65$$

$$35 + 14x + x = 65$$

Sometimes you combine like terms first, and then distribute.

$$8(5x + 9x + 6) = 160$$

$$8(14x + 6) = 160$$

1. Highlight the parts of each equation that must be simplified before the equation can be solved.

2. What property do the arrows represent?

3. Why is it necessary to use the Distributive Property first and then combine like terms to solve $7(5 + 2x) + x = 65$?

4. What do the parentheses mean in the expression $8(5x + 9x + 6)$?

5. Why do you first combine like terms and then use the Distributive Property to solve $8(5x + 9x + 6) = 160$?

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