Simplifying by Combining Like Terms and Distribution

Name Period of

Explore CWK

Stores have boxes of candy (b),



packages of candy (p), Candy



and single candy bars.



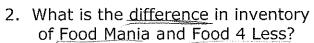
Food 4 Less = 10b + 8p + 20

Smith's Food = 5b + 6p + 10

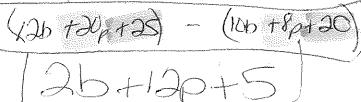
 $Grant's\ Grocery = 3b + 8$

Food Mania = 12b +20p +25

1. What is the combined inventory of Food 4 Less and Smith's Food?



106 +89120) + (56+6p+10) 15h+14p+3C



- The district manager requires that Food 4 Less and Food Mania submit a report containing an algebraic expression representing the combined inventories of the two
 - a. Write the expression that represents the sum of the inventories of the two stores.



b. Write an equivalent expression representing the total humber of boxes, packages, and candy bars for two stores.

206 + 28p + 45

4. Write two equivalent expressions to represent the difference in the inventories of Food 4 Less and Smith's Food.

(105 +8p +20)-(5b+6p+10) = 5b+2p+10

5. What do you think it would mean to simplify an algebraic expression?

Combra Like terms a perform all operations that you can!