Activity 7 Assessment
Evaluating Algebraic Expressions

Evaluating Algebraic Expressions

Chooses variables to write an algebraic expression	Substitutes for the variables in an algebraic expression	Uses number properties to evaluate an algebraic expression	Solves problems involving algebraic expressions
I am buying 5 plantains, 1 duck, 6 cobs of corn, and 3 mangos. Let p represent the cost of a plantain, d represent the cost of a duck, c represent the cost of a cob of corn, and m represent the cost of a mango. The expression that describes the cost of the items on my shopping list is: $5p + d + 6c + 3m$	$5p + d + 6c + 3m$ I used the prices from the Food for All store. The cost in dollars is: $5(0.54) + 9.99 + 6(0.79) + 3(1.50)$	Use the order of operations: cost in dollars is $5(0.54) + 9.99 + 6(0.79) + 3(1.50)$ $= 2.70 + 9.99 + 4.74 + 4.50$ $= 21.93$	I am trying to buy at least 4 different kinds of items from Great Foods and want to spend close to but not more than $30. I'll try 1 mango, 2 ducks, 2 bok choy, and 4 corn: $1m + 2d + 2b + 4c$ Substituting prices from the list, I get $1(1.49) + 2(8.75) + 2(3.49) + 4(0.75)$ $= 28.97$ I can add 1 more corn and still be below $30.

Observations/Documentation

Mathology 8
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