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| **Evaluating Algebraic Expressions** |
| Chooses variables to write an algebraic expressionI 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: 5*p* + *d* + 6*c* + 3*m* | Substitutes for the variables in an algebraic expression5*p* + *d* + 6*c* + 3*m* 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) | Uses number properties to evaluate an algebraic expressionUse 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 | Solves problems involving algebraic expressionsI 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: 1*m* + 2*d* + 2*b* + 4*c*Substituting prices from the list, I get  1(1.49) + 2(8.75) + 2(3.49) + 4(0.75) = 28.97I can add 1 more corn and still be below $30. |
| **Observations/Documentation** |
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