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| **Evaluating Algebraic Expressions** | | | |
| Chooses variables to write an algebraic expression  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:  5*p* + *d* + 6*c* + 3*m* | Substitutes for the variables in an algebraic expression  5*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 expression  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 | Solves problems involving algebraic expressions  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:  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) = 28.97  I can add 1 more corn and still be below $30. |
| **Observations/Documentation** | | | |
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