The Sales Item Class

A local dépanneur has asked you to write a program that will track its inventory. In order to do this, you have decided to create a **SalesItem** class. You will need to know the following about each sales item:

* The UPC for the item (UPC is the unique numeric product code of an item represented by the barcode on the item.) (*itemUPC*)
* The name of the item (*itemName*)
* The quantity of the item currently in stock (*quantityOnHand*)
* The unit cost of the item (*unitCost*)
* The retail price of the item (*retailPrice*)

You also want to keep track of

* The total quantity of the item that has been sold (*quantitySold*)
* The total dollar amount of sales for the item (*totalSales*)

Your class should include accessors for each attribute and mutators for the first five attributes. You will also need methods to:

* Register a sale of *n* items and return the cost of the sale (*registerSale*)
* Register a sale of *n* items with a discount of *p* percentage and return the cost of the sale (*registerDiscountedSale*)
* Calculate the total dollar cost of all the items that have been sold (*calculateCost()*)
* Calculate the total profit made on the item (*calculateProfit()*)

All monetary amounts should be rounded to two decimal places.