

Algebra 2 — due 5 Sept 2017

# POW #1



Jack Sprat and his wife like to dine out at their favorite restaurant, *Rhymes*, once a month. Their favorite menu items are the ballad salad platter (delivered with a song), Southern fried chicken pick'ens with green beans, and baked steak with potatoes. They always order two of the three items, sharing the choices.

Two months ago they ordered the steak and chicken dishes, paying a total of \$13.40 for their meal. One month later, they chose the chicken and salad, paying \$10.75 to the cashier. This month, they dined on the steak and the salad, which cost them \$13.25.

Using the above information, find the price for each menu item if purchased individually.

**Extra:** After dinner, the Sprats like to have dessert. Their three favorite desserts are ice cream, apple pie and fresh fruit. The restaurant lists the calories for each dessert, and one night the Sprats made the following observations about their favorite desserts:

- A slice of pie and the fresh fruit has 540 total calories.
- A bowl of ice cream and the fresh fruit together have 16 fewer calories than a slice of pie.
- Two bowls of ice cream and a slice of pie totals 938 calories.

How many calories are found in each of the three desserts?