Solving Cost Problems

A. One night the manager of the Sea Breeze Motel rented 5 singles and 12 doubles for a total of \$390. The next night he rented 9 singles and 10 doubles for a total of \$412. Find the rental charge for each type of room.

Unknowns:	S = single price	Equations:	5S + 12D = 390
	D = double price		9S + 10D = 412

B. At Gwen's garage sale, all books were one price, and all magazines were another price. Harriet bought four books and three magazines for \$1.45, and June bought two books and five magazines for \$1.25. Find the price of a book and of a magazine.

Unknowns:	B = book price	Equations:
	M = magazine price	

C. Tickets for a concert were sold to adults for \$3 and to students for \$2. If the total receipts were \$824 and twice as many adult tickets as student tickets were sold, find how many of each were sold.

[Be careful with this one. Is the equation representing "twice as many adults as students" written 2A = S or A = 2S ?]

Unknowns:	S = number of student tickets	Equations:	3A + 2S = 824
	A = number of adult tickets		A = 2S