1. You are selling tickets for a high school basketball game. Student tickets cost $3 and general admission tickets cost $5. You sell 350 tickets and collect $1450. How many of each type of ticket did you sell?

s = # of student tickets

g = # of gen. admit tickets

$3s+5g=1450$ and $s+g=350$

$3s+5g=1450$

$\ominus\ 3s+3g=1050$

$2g=400$

$g=200$

$s+g=350$

$s+200=350$

$s=150$

I sold 150 student tickets and 200 gen. adm. tickets.

2. Your family goes to a restaurant for dinner. There are 6 people in your family. Some order the chicken dinner for $14.80 and some order the steak dinner for $17. If the total bill was $91, how many people ordered each type of dinner?

3. You bought the meat for Saturday's cookout. A package of hot dogs cost $1.60 and a package of hamburger cost $5. You bought a total of 8 packages of meat and you spent $23. How many packages of hamburger meat did you buy?

h = # of hot dog packs bought

b = # of hamburger packs bought

$1.60h+5b=23$ and $h+b=8$

$1.60h+5b=23$

$\ominus\ 5h+5b=40$

$-3.40h=-17$

$h=5$

$h+b=8$

$5+b=8$

$b=3$

I bought 3 packages of hamburger meat.

4. Casey orders 3 pizzas and 2 orders of breadsticks for a total of $29.50. Rachel orders 2 pizzas and 3 orders of breadsticks for a total of $23. How much does a pizza cost?

5. Rent-A-Car rents compact cars for a fixed amount per day plus a fixed amount for each mile driven. Benito rented a car for 6 days, drove it 550 miles, and spent $337. Lisa rented the same car for 3 days, drove it 350 miles, and spend $185. What is the charge per day and the charge per mile for the compact car?

m = charge per miles driven

d = charge per days rented

$6d+550m=337$ and $3d+350m=185$

$6d+550m=337$

$\ominus\ 6d+700m=370$

$-150m=-33$

$m=.22$

$3d+350m=185$

$3d+350(.22)=185$

$3d+77=185$

$3d=108$

$d=36$

It costs $36 a day and $0.22 a mile

6. Beach Hotel in Cancun is offering two weekend specials. One includes a 2-night stay with 3 meals and cost $195. The other includes a 3-night stay with 5 meals and cost $300. What is the cost of a single meal?