# Name MEY

### Electricians In Exercises 19-21, use the following information.

The yellow pages identify two different local electrical businesses. Business A charges \$50 for a service call, plus an additional \$36 per hour for labor. Business B charges \$35 for a service call, plus an additional \$39 per hour for labor.

- 19. Let x represent the number of hours of labor and let y represent the total charge. Write a system of equations you could solve to find the length of a service call for which both businesses charge the same amount.
- 20. Solve the system.
- 21. Which company would you use? Why?

19) 
$$y = 36 \times +50$$
  
 $y = 39 \times +35$   
 $39 \times +35 = 36 \times +50$   
 $3 \times =15$   
 $x = 5$   
20)  $(5, 230)$   
21) Aif >5 hrs, Bif <5 hrs.

# Travel Agency In Exercises 22 and 23, use the following information.

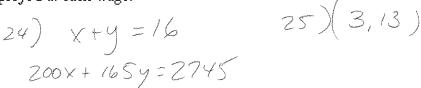
A travel agency offers two Boston outings. Plan A includes hotel accommodations for three nights and two pairs of baseball tickets worth \$518. Plan B includes hotel accommodations for five nights and four pairs of baseball tickets worth \$907.

- 22. Let x represent the cost of one night's hotel accommodation and let y represent the cost of one pair of baseball tickets. Write a system of equations you could solve to find the cost of one night's hotel accommodation and one pair of baseball tickets.
- 23. Solve the system.

## Highway Project In Exercises 24 and 25, use the following information.

There are sixteen workers employed on a highway project, some at \$200 per day and some at \$165 per day. The daily payroll is \$2745.

- 24. Let x represent the number of \$200 per day workers and let y represent the number of \$165 per day workers. Write a system of equations to find the number of workers employed at each wage.
- 25. Solve the system.



#### Cookout In Exercises 19 and 20, use the following information.

You are buying the meat for a cookout. You need to buy 8 packages of meat. A package of hotdogs costs \$1.89 and a package of hamburgers costs \$5.19. You spend a total of \$31.62.

- **19**. Let x represent the number of packages of hotdogs bought and let y represent the number of packages of hamburgers bought. Write a system of equations you could solve to find the number of packages of each type of meat bought. 19) X+4=8
- 20. Solve the system.

1.89x+5.19y =3662 (3,5)

**21**. Baseball Glove Sales A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for a total revenue of \$561. Right-handed gloves cost \$45 and left-handed gloves cost \$52. Find the number of each type of glove sold.

X+4=12 (9,3)45x +52y = 561

22. Southern Cuisine Your family goes to a Southern-sytle 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 dinner?

X+y=6  $14.80 \times +17 y = 91$ (5,1)