Solve each problem. Use x as the variable. Show the check.

## Word Problem Wednesday

- 1. A repair person charges \$125 for a service call plus \$40 per hour of service. The total for one customer was \$205.
  - (a) What would this problem ask you to solve for?

x =the number of \_\_\_\_\_

(b) Make a table of x and the cost. Start with x = 0

x	cost
0	
1	
2	
3	

Show the row differences. Circle the row in the table with the right cost.

(c) Write an equation for the problem of the form y = mx + b, and solve it for x

- (d) Check the answer
- (e) Spicy: How much would be the tax at 8.75% on the total charge?

For each problem, use x as the variable, make a table, write an equation, solve it, and show the check.

2. Mubin collected 10 pounds of aluminum cans to recycle. He plans to collect an additional 2 pounds each week. His goal is to collect a total of 20 pounds of aluminum cans.

3. A boat rental service charges a \$15 deposit and \$3 per hour to rent one canoe. Arilenys has budgeted \$45 to spend on her boat trip.

4. The entrance fee at a carnival is \$12.50 and each ride costs \$1.50. Henry has \$30.

5. A target shooting video game gives you a starting score of 500 points, and you lose 50 points with each miss. Gio wants to stop when he reaches 100 points.

6. There are two cell phone plans. Sprint has a start-up fee of \$35 and costs \$20 per month. The Huson-tel phone company plan costs \$15 to start, but charge \$25 per month. After how many months will they cost the same?

7. Dr. Huson's philodendron plant is 5 inches tall and grows one inch per week. His Swedish ivy cutting is 2 inches tall and grows 2 inches per week. After how many weeks will they be the same size?