Power Point Practice II

Solve each problem by showing what x will equal (let x =) and then making an equation using x in the equation – not at the end. Solve the equation and put a box around your answer. Make sure to label your answer with the correct units.

1.   The number of sweaters in my closet is 3 more than twice the number of pants. All together I have 120 pants and sweaters. How many of each do I have?

2.   A playoff ticket to a Patriots Game costs $475 more than a regular season ticket. Together their cost is $560. What is the cost of a regular season ticket?

3.   Two times a number divided by 8 is 56.

4. Hair grows at a rate of .85 inches a month. How many years would it take for your hair to grow 21 inches?

5. My goal is to run on my treadmill an average of 5o minutes a day each week. On Monday I ran 35 mins, on Tuesday 50 mins, on Wednesday 55 mins, on Thursday 1 hour, on Friday 45 mins and on Saturday 65 mins. How many minutes do I need to run on Sunday to keep the 50 minute average?

6. As a car salesman your commission is one eighth of the total sales you make. If you earned $65,000 in commissions what were your sales?

7. The perimeter of a rectangle is 40m. The length of the rectangle is 10 m greater than the width. Find the length and width.

8. In May Sal's Bakery had operating costs of $6630 and made a profit of $1170. In June the operating costs are expected to be $6273. What must the bakery's income be if its profit to remain the same?

9. Pine Street Rent-A-Car rents cars for $40 per day and $.10 for every mile driven. How many miles can you drive if you can only spend $230?

10. The sum of two consecutive integers is less than 31. What are the greatest two numbers that this could be?

11. There is a balanced scale in front of you. The right side has 150 Mike and Ikes on it. The left side has 45 Mike and Ikes and 3 boxes each containing some Mike and Ikes. If the boxes themselves don't weigh anything, how many Mike and Ikes must be in each box for the scale to be balanced?

12. The sum of two numbers is 100. One number is 24 less than the other number. What is the larger number?

13. The difference between twice a number a number and 50 is 10. What is the number?

14. A highway noise barrier that is 120 m long is constructed in two pieces. One piece is 45 m longer than the other. Find the length of each piece.

15. This week, Miley Cyrus worked 1 ½ hrs on Monday, 2 ¼ hours on Tuesday, 1 1/3 hours on Wednesday and 7 ½ hours on Thursday. Her contract with Disney Studios says she must work an average of 4 hours a day from Monday to Friday to get her pay check. How many hours must she work on Friday in order to get paid?