Equations and Word Problem Review

1. Solve the following equations:
   1. 6y=3y+12 f. 3x+8x=44
   2. 5x-49=-2x g. 7x-10=3x+14
   3. 6x+15=87 h. 4(2x-8)=16
   4. 6m+3-8m+4m=-7 i. =
   5. j. =
2. Percent Equations. (Remember that of means multiply). Write the following equations and solve. The first one has been done for you.
   1. 50% of 30 is x …… .50(30)=x so 15=x
   2. 35% of 80 is n
   3. 240% of 3500 is x
   4. M is 7.5 % of 64
   5. S is 112% of 150
3. Solve the following problems. (Use the 5 step method)
   1. The sum of thirteen and three times a number is fifty-eight. Find the number.
   2. The sum of seventeen and two more than twice a number is forty-eight. Find the number.
   3. When six is subtracted from five times a certain number, the result is sixty-nine. Find the number.
   4. An isosceles triangle has two equal sides of 2.7 cm and a perimeter of 7.3 cm. What is the measure of its base?
   5. The length of a rectangle is 30 m more than its width. The perimeter of this rectangle is 180 m. What are the dimensions of this rectangle?
   6. The sum of two consecutive integers is 71. What are the two numbers?
   7. The sum of three consecutive numbers is 126. What are the three integers?
   8. The sum of five consecutive numbers is 135. Find the numbers.
   9. A salesman receives a commission of 5%. What is his commission for selling a truck that sold for $9000?