Guided Notes - Multi-Step Equations as Word Problems

***Write each sentence as an algebraic equation.***

1. Juan’s salary plus $125 is $600. \_\_\_\_s + 125 = 600\_\_\_

2. Six times as many visitors is 120 visitors. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Twenty-seven is seven fewer students than last year. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Two and one-half times the amount of interest is $2500. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. The number of cats decreased by 17 is 19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Four times the number of feet is 12 feet. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. The price decreased by $4 is $29. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. After dividing the money 5 ways, each person got $67. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Three more than 8 times as many trees is 75 trees. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Twice as many points as Bob would be 18 points. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Define the variable, write the equation, and solve.**

1. Yesterday Josh sold some boxes of greeting cards. Today he sold seven boxes. If he sold 25 boxes in all, how many did he sell yesterday?
   1. Variable: Equation:
   2. Solve:
2. After Hoshi spent $27.98 for a sweater, she had $18.76 left. How much money did she have to begin with?
   1. Variable: Equation:
   2. Solve:
3. After Simon donated four books to the school library, he had 28 books left. How many books did Simon have to start with?
   1. Variable: Equation:
   2. Solve:
4. One day Reeva baked several dozen muffins. The next day she made 8 dozen more muffins. If she made 20 dozen muffins in all, how many dozen did she make the first day?
   1. Variable: Equation:
   2. Solve:
5. Twelve notebooks cost $15.48 in all. What is the price of one notebook?
   1. Variable: Equation:
   2. Solve:
6. Skylar bought seven books at $12.95 each. How much did Skylar spend?
   1. Variable: Equation:
   2. Solve:
7. Eugene has five payments left to make on his computer. If each payment is $157.90, how much does he still owe?
   1. Variable: Equation:
   2. Solve:
8. Hugo received $100 for his birthday. He then saved $20 per week until he had a total of $460 to buy a printer. Write an equation to show how many weeks it took him to save the money.
   1. Variable: Equation:
   2. Solve:
9. A health club charges a $50 initial fee plus $2 for each visit. Mary has spent a total of $144 at the health club this year. Use an equation to find how many visits she has made.
   1. Variable: Equation:
   2. Solve: