**Homework:** Solve Systems of Equations with Substitution

**Write and solve a system of equations that represents each situation. Interpret the solution.**

**1. MONEY** Neil has a total of twelve $5 and $10 bills in his wallet. He has 5 times as many $10 bills as $5 dollar bills. How many of each does he have?

*Let x = five dollar bills Let y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

|  |  |
| --- | --- |
| **1st Equation (Total Bills)** | x + y = 12 |
| **2nd Equation (Amount of $10 bills)** |  |

Now solve using substitution: ***Show all work***

**2. HAYRIDE** Hillary and 23 of her friends went on a hayride. There are 8 more boys than girls on the ride. How many boys and girls were on the ride? Solve using Substitution- ***Show all work***

*Let b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Let g = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**3. DRIVING** Winston drove a total of 248 miles on Monday. He drove 70 fewer miles in the morning than he did in the afternoon. How many miles did he drive in the morning and afternoon? Solve using Substitution-***Show all work***

*Let m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Let a = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*