Name:

KEY Review Quiz -Systems with Word Problems-10.1 and 10.3 (2.I)

**Setting up systems of Equations**

*Directions: Write a system of equations to represent the situation, then solve they system.*

1. Jimmy enjoys painting fences and charges $45 for each wooden fence and $30 for each metal fence. If Jimmy earns $1080 for painting 27 fences, how many of each type of fence did he paint?

Equation 1: $ x+y=27$ Equation 2: $45x+30y=1080 or 30x+45y=1080$

Metal: 9 Wooden: 18

1. A collection of nickels and dimes is worth $6.30. There are 21 more dimes than nickels. How many of each coin are there?

Equation 1: $ .05n+.1d=6.30$ Equation 2: $d=n+21 or n=d-21$

Dimes: 49 Nickels:­­­ 28

1. The perimeter of a rectangle is 210. The length of a rectangle is six less than the twice the width. What are the dimensions of the rectangle?

Equation 1: $ 2l+2w=210$ Equation 2: $l=2w-6$

Length: 68 Width:­­­ 37