## Algebra I Class Worksheet \#2 Unit 3 page 1

Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.

1. The length of a rectangle is seven inches more than the width. The perimeter of the rectangle is 26 inches. What are the dimensions (the length and the width) of the rectangle?
2. The length of a rectangle is two times the width. The perimeter of the rectangle is 24 inches. What are the dimensions of the rectangle?
3. The length of a rectangle is five inches more than two times its width. The perimeter of the rectangle is 46 inches. What are the dimensions of the rectangle?
4. The length of a rectangle is two inches less than four times its width. The perimeter of the rectangle is 36 inches. What are the dimensions of the rectangle?

## Algebra I Class Worksheet \#2 Unit 3 page 2

Solve each of the following problems algebraically (one variable solution). Show your work neatly organized.
5. A collection of ordinary dimes and nickels is worth $\$ 5$. If the number of dimes is five more than the number of nickels, then how many coins of each type are there in the collection?
6. A collection of ordinary dimes and quarters is worth $\$ 5$. If the number of quarters is eight less than the number of dimes, then how many coins of each type are there in the collection?
7. A collection of ordinary dimes and nickels is worth $\$ 3.75$. If the number of dimes is five less than twice the number of nickels, then how many coins of each type are there in the collection?
8. A collection of ordinary quarters and nickels has a total value of $\$ 4$. If there are 60 coins in the collection, then how many coins of each type are there?

