



## Algebra I Review Unit 3 page 2

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

5. The length of a rectangle is 2 **inches** less than three times its width. The perimeter of the rectangle is 5 **feet**. What are the dimensions of the rectangle?

6. If a collection of 50 ordinary dimes and nickels is worth \$4.30, then how many coins of each type are there?

7. Bill and Jayne drive toward each other from places which are 204 miles apart. Bill averages 42 mph and leaves at 8:00 AM, while Jayne averages 48 mph and leaves at 10:00 AM. At what time will they meet?

8. A burger costs twice as much as a soda. A hot-dog costs 50 cents more than a soda. Three burgers, three hot-dogs, and six sodas cost a total of \$12.90. How much does each item cost?