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

1. One number is one less than twice another. Their sum is 6. What are the numbers?

2. The sum of 4 consecutive odd whole numbers is 152. What are the whole numbers?

3. Betty has three times as many marbles as Joe. Sue has two less marbles than Joe. The three people have a total of 58 marbles. How many marbles does each person have?

4. A collection of ordinary dimes and quarters is worth \$5. The number of quarters is one less than the number of dimes. How many coins of each type are in the collection?

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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?