Name:

Date:

Period:

Use the following template to solve word problems.

	Let Statements	Equation	<u>Solve</u>	Statement/Sentence
•	Determine # of "Let" statements needed Write them beginning with Let x =	 Set up equation USING the "Let" statements just written Start with your EQUAL sign 	Solve the equation using Distribute Combine Eliminate 	Substitute the value for x back into the "Let" statements to write your sentence answering the question being asked
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Solve each problem algebraically. Show all your work on a separate piece of paper.

- 1. Four times a number less six is eight more than two times the number. Find the number.
- 2. Roy weighs 50 kg more than Bill. Their combined weight is 170 kg. What is each of their weights?
- 3. Steve and Stan sold a total of 93 candy bars for a fund-raiser. If Steve sold 5 more than 3 times the number that Stan sold, find the number of candy bars sold by each.
- 4. Angela is 3 times as old as Linda. In 5 years, Angela will be twice as old as Linda will be. Find their present ages.
- 5. Juan is 5 years older than Amir. Five years ago, Juan was twice as old as Amir. Find their present ages.
- 6. Elena's mother is 26 years older than Elena. In 10 years, the sum of their ages will be 80. What are their ages now?
- 7. Vera is twice as old as Carly. Ten years ago, the sum of their ages was 70. How is each of them now?
- 8. A man has twice as many quarters as nickels. The total value of the coins is \$4.40. How many of each coin does he have?
- 9. A girl has a collection of nickels, dimes, and quarters whose total value is \$11.25. She has 3 times as many nickels as dimes, and 5 more quarters than dimes. How many of each coin are in her collection?
- 10. If 12 more than 9 times a number is equal to 10 times that number plus 4, find the number.
- 11. The sum of two numbers is 88. One number is 24 greater than the other. Find the two numbers.
- 12. Five years from now, the sum of the ages of a woman and her daughter will be 40 years. The difference in their present age is 24 years. How old is her daughter now?
- 13. Sixteen years from now, Pia's age will be twice her age 12 years ago. Find her present age.
- 14. The total age of a woman and her son is 51 years. Three years ago, the woman was eight times as old as her son. How old is her son now?