

Name:

Date:

Period:

Use the following template to solve word problems.

<u>Let Statements</u>	<u>Equation</u>	<u>Solve</u>	<u>Statement/Sentence</u>
<ul style="list-style-type: none">Determine # of "Let" statements neededWrite them beginning with Let $x =$ _____	<ul style="list-style-type: none">Set up equation USING the "Let" statements just writtenStart with your EQUAL sign	<p>Solve the equation using</p> <ul style="list-style-type: none">DistributeCombineEliminate	<p>Substitute the value for x back into the "Let" statements to write your sentence answering the question being asked</p>

Solve each problem algebraically. Show all your work on a separate piece of paper.

- The greater of two numbers is 1 more than twice the smaller. Three times the greater exceeds five times the smaller by 10. Find the numbers.
- The second of three numbers is 1 less than the first. The third number is 5 less than the second. If the first number is twice as large as the third, find the three numbers.
- It took the Gibbons family 2 days to travel 925 miles to their vacation home. They traveled 75 miles more on the first day than on the second. How many miles did they travel each day?
- During the first 6 months of last year, the interest on an investment was \$130 less than during the second 6 months. The total interest for the year was \$1,450. What was the interest for each 6-month period?
- Leonard wants to save \$100 in the next 2 months. He knows that in the second month he will be able to save \$20 more than during the first month. How much should he save each month?
- To rent a car, the ABC Company charges \$75 a day plus \$0.05 a mile. How many miles did Mrs. Kiley drive if the cost of renting the car was \$92.40?
- Lois is four times as old as her son Dan. The sum of their ages is 40. How old is Dan?
- The width of a rectangle is equal to a side of a square. The length of the rectangle is 1 less than twice the side of the square. The perimeter of a rectangle exceeds the perimeter of the square by 10. Find a side of the square.
- The length of a rectangle is 1 more than 3 times the width. If the length is diminished by 3 and the width is doubled, a new rectangle is formed whose perimeter is 46. Find the dimensions of the original rectangle.
- The length of a rectangle is twice the width. If the length is increased by 6, and the width is doubled, a new rectangle is formed whose perimeter is 20 more than the perimeter of the original rectangle. Find the dimensions of the original rectangle.
- Find three consecutive positive odd integers such that twice the sum of the second and third is 2 less than six times the first.
- Find three consecutive integers whose sum is -57 .