

Name:

Date:

Period:

Use the following template to solve word problems.

Let Statements

- Determine # of "Let" statements needed
- Write them beginning with
Let $x =$ _____

Equation

- Set up equation USING the "Let" statements just written
- Start with your EQUAL sign

Solve

- Solve the equation using
- Distribute
 - Combine
 - Eliminate

Statement/Sentence

Substitute the value for x back into the "Let" statements to write your sentence answering the question being asked

Show all work on separate piece of paper.

1. Find three consecutive integers so that three times the middle integer is five more than the sum of the first and third.
2. Find three consecutive even integers such that the sum of the first integer and three times the last integer is 20 less than 5 times the second integer.
3. Rhonda has \$1.35 in nickels and dimes in her pocket. If she has six more dimes than nickels, how many nickels does she have?
4. Find two consecutive odd integers such that 2 times the first is 19 less than 3 times the second.
5. The larger of two number is one more than 4 times the smaller. If the larger number exceeds twice the smaller by 25, find the numbers.
6. Using only 39-cent and 24-cent stamps, Charlie put \$7.14 postage on a package he mailed to his sister. If he used twice as many 39-cent stamps as 24-cent stamps, how many 24-cent stamps did he use?
7. The sum of two numbers is 240. The larger number is 6 less than twice the smaller. Find the numbers.
8. One number is 4 more than three times a smaller number. If twice the larger number is decreased by three times the smaller number, the result is 32. Find the numbers.
9. A woman purchases some 2-cent and some 15-cent stamps and pays \$1.56 for all the stamps. There are 10 more 2-cent stamps than 15-cent stamps. Find the total number of each stamps purchased.
10. Find three consecutive integers such that twice the smallest is 12 more than the largest.
11. At a little league game, \$880 was collected for hotdogs, hamburgers, and soda. All three items sold for \$1.00 each. Three times as many hotdogs were sold as hamburgers. Four times as many sodas were sold as hamburgers. How many total hotdogs were sold?
12. Find three consecutive odd integers such that the sum of the first and the second is 27 less than 3 times the third.
13. The greater of two numbers is 13 more than 2 times the smaller. Nine times the greater is 5 more than 4 times the smaller. Find the numbers.
14. The length of a rectangular picture frame is 3 cm less than twice its width. The perimeter is 78 cm. Find the dimensions of the picture frame.
15. The second side of a triangular garden is 4 m longer than the shortest side of the garden. The longest side is 5 m longer than the second side. If the perimeter of the garden is 31 m, find the length of each side.