Let Statements	**Equation**	**Solve**	**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

Use the template to solve each problem algebraically. Show all your work on a **separate piece** of paper.

1. One number is 10 more than another. The sum of twice the smaller plus three times the larger, is 55. What are the two numbers?

2. You have $60 and your sister has $120. You are saving $7 per week and your sister is saving $5 per week. How long will it be before you and your sister have the same amount of money?

3. Iris is selling jewelry at a craft fair. She sells twice as many rings as bracelets. She sells three more necklaces than bracelets. She sells necklaces for $15, bracelets for $5, and rings for $10. She makes $245 at the craft fair. How many necklaces, bracelets, and rings did Iris sell?

4. The length of a rectangle is 7 cm more than 4 times its width. Its perimeter is 124 cm. Find its dimensions.

5. Linda is twice as old as Vera. Tanya is four less than four times the age of Linda. Their total age is two more than nine times the age of Vera. How old is Tanya?

6. The sum of three consecutive positive integers is 111. Find all three integers.

7. Find two consecutive odd integers such that three times the first is 5 more than twice the second.

8. Mr. Rogers has $4.62. He has 3 times as many dimes as nickels and 6 more pennies than dimes. How many coins of each kind does he have?

9. The ratio of boys to girls in your new class is 5 : 2. The sum of the kids in the class is 28. How many boys are in the class?

10. Linda was selling tickets for the school play. She sold 10 more adult tickets than children tickets and she sold twice as many senior tickets as children tickets. Adult tickets cost $5, children's tickets cost $2, and senior tickets cost $3. Linda made $700. How many of each ticket were sold for the play?

11. Find two consecutive integers such that twice the larger is equal to fifteen less than three times the smaller.

12. The sum of the least and greatest of 3 consecutive integers is 60. What are the values of the three integers?

13. Jamal has $9.50 in stamps. He has 4 times as many 20-cent stamps as 15-cent stamps. How many of each kind does Jamal have?

14. Katherine has six times as many dimes as quarters in her piggy bank. She has 21 coins in her piggy bank totaling $2.55. How many of each type of coin does she have?

15. Jill and her friends were selling cookies. They sold 4 more boxes the second week than they did the first. On the third week, they doubled the sale of their second week. Altogether, they sold a total of 352 boxes. How many boxes did they sell in the third week?