Unit 2 - Linear Equation Word Problems

Read each word problem carefully. Write an equation and solve for x. Show your work.

1. A theater had x people inside. 5 people left during intermission. There are 15 people still in the theater. How many people were there at first?

    Equation: _____

    Solution: _____

2. Tom had x marbles. He lost 10 marbles at the park. He has 13 marbles now. How many marbles did he have at first?

    Equation: _____

    Solution: _____

3. A theater had x people inside. 4 people left during intermission. There are 10 people still in the theater. How many people were there at first?

    Equation: _____

    Solution: _____

4. A garden had x flowers. The gardener picked 6 flowers. There are 19 flowers left in the garden. How many flowers were there at first?

    Equation: _____

    Solution: _____

Unit 2 - Linear Equation Word Problems - Answer Key

1. A theater had x people inside. 5 people left during intermission. There are 15 people still in the theater. How many people were there at first?

   Equation: x - 5 = 15

   Solution: x = 20

2. Tom had x marbles. He lost 10 marbles at the park. He has 13 marbles now. How many marbles did he have at first?

   Equation: x - 10 = 13

   Solution: x = 23

3. A theater had x people inside. 4 people left during intermission. There are 10 people still in the theater. How many people were there at first?

   Equation: x - 4 = 10

   Solution: x = 14

4. A garden had x flowers. The gardener picked 6 flowers. There are 19 flowers left in the garden. How many flowers were there at first?

   Equation: x - 6 = 19

   Solution: x = 25