



Name: _____

Date: _____

Linear Equation Word Problems

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

1. In a parking lot, there are x cars. Then 99 more cars arrive. Now there are 113 cars total. How many cars were there at first?

Equation: _____

Solution: _____

2. The temperature was x degrees in the morning. It rose 55 degrees by afternoon. The afternoon temperature was 145 degrees. What was the morning temperature?

Equation: _____

Solution: _____

3. In a parking lot, there are x cars. Then 1 more cars arrive. Now there are 71 cars total. How many cars were there at first?

Equation: _____

Solution: _____

4. In a parking lot, there are x cars. Then 31 more cars arrive. Now there are 77 cars total. How many cars were there at first?

Equation: _____

Solution: _____



Linear Equation Word Problems – Answer Key

1. In a parking lot, there are x cars. Then 99 more cars arrive. Now there are 113 cars total. How many cars were there at first?

Equation: $x + 99 = 113$

Solution: $x = 14$

2. The temperature was x degrees in the morning. It rose 55 degrees by afternoon. The afternoon temperature was 145 degrees. What was the morning temperature?

Equation: $x + 55 = 145$

Solution: $x = 90$

3. In a parking lot, there are x cars. Then 1 more cars arrive. Now there are 71 cars total. How many cars were there at first?

Equation: $x + 1 = 71$

Solution: $x = 70$

4. In a parking lot, there are x cars. Then 31 more cars arrive. Now there are 77 cars total. How many cars were there at first?

Equation: $x + 31 = 77$

Solution: $x = 46$