



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Unit 2 – Linear Equation Word Problems

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

1. Jake collected  $x$  baseball cards. His friend gave him 45 more cards. Now he has 53 cards. How many cards did he start with?

Equation: \_\_\_\_\_

Solution: \_\_\_\_\_

2. Maria had  $x$  apples. She bought 50 more apples. Now she has 63 apples. How many apples did Maria have at first?

Equation: \_\_\_\_\_

Solution: \_\_\_\_\_

3. In a parking lot, there are  $x$  cars. Then 33 more cars arrive. Now there are 66 cars total. How many cars were there at first?

Equation: \_\_\_\_\_

Solution: \_\_\_\_\_

4. The temperature was  $x$  degrees in the morning. It rose 46 degrees by afternoon. The afternoon temperature was 92 degrees. What was the morning temperature?

Equation: \_\_\_\_\_

Solution: \_\_\_\_\_



## Unit 2 – Linear Equation Word Problems – Answer Key

1. Jake collected  $x$  baseball cards. His friend gave him 45 more cards. Now he has 53 cards. How many cards did he start with?

Equation:  $x + 45 = 53$

Solution:  $x = 8$

2. Maria had  $x$  apples. She bought 50 more apples. Now she has 63 apples. How many apples did Maria have at first?

Equation:  $x + 50 = 63$

Solution:  $x = 13$

3. In a parking lot, there are  $x$  cars. Then 33 more cars arrive. Now there are 66 cars total. How many cars were there at first?

Equation:  $x + 33 = 66$

Solution:  $x = 33$

4. The temperature was  $x$  degrees in the morning. It rose 46 degrees by afternoon. The afternoon temperature was 92 degrees. What was the morning temperature?

Equation:  $x + 46 = 92$

Solution:  $x = 46$