



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

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

## 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 20 more cards. Now he has 43 cards. How many cards did he start with?

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

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

2. A farm has x chickens and 20 ducks. There are 55 birds total. How many chickens are there?

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

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

3. A theater had x people inside. 25 people left during intermission. There are 42 people still in the theater. How many people were there at first?

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

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

4. In a parking lot, there are x cars. Then 19 more cars arrive. Now there are 56 cars total. How many cars were there at first?

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

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



## Linear Equation Word Problems – Answer Key

1. Jake collected  $x$  baseball cards. His friend gave him 20 more cards. Now he has 43 cards. How many cards did he start with?

Equation:  $x + 20 = 43$

Solution:  $x = 23$

2. A farm has  $x$  chickens and 20 ducks. There are 55 birds total. How many chickens are there?

Equation:  $x + 20 = 55$

Solution:  $x = 35$

3. A theater had  $x$  people inside. 25 people left during intermission. There are 42 people still in the theater. How many people were there at first?

Equation:  $x - 25 = 42$

Solution:  $x = 67$

4. In a parking lot, there are  $x$  cars. Then 19 more cars arrive. Now there are 56 cars total. How many cars were there at first?

Equation:  $x + 19 = 56$

Solution:  $x = 37$