



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: $x = 37$