



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

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

## Algebra 1 – Unit 2 – Linear Equation Word Problems (Hard)

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

1. There are 168 students in class today. 94 students are wearing glasses. How many students are not wearing glasses?

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

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

2. Emma saved \$ $x$ . She earned \$46 more doing chores. Now she has \$114. How much money did she have at first?

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

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

3. There are 109 students in class today. 85 students are wearing glasses. How many students are not wearing glasses?

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

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

4. There were  $x$  cookies in a jar. Sarah ate 1 cookies. Now there are 90 cookies left. How many cookies were there at first?

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

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



# gebra 1 – Unit 2 – Linear Equation Word Problems (Hard) – Answer Key

1. There are 168 students in class today. 94 students are wearing glasses. How many students are not wearing glasses?

Equation:  $x + 94 = 168$

Solution:  $x = 74$

2. Emma saved \$x. She earned \$46 more doing chores. Now she has \$114. How much money did she have at first?

Equation:  $x + 46 = 114$

Solution:  $x = 68$

3. There are 109 students in class today. 85 students are wearing glasses. How many students are not wearing glasses?

Equation:  $x + 85 = 109$

Solution:  $x = 24$

4. There were x cookies in a jar. Sarah ate 1 cookies. Now there are 90 cookies left. How many cookies were there at first?

Equation:  $x - 1 = 90$

Solution:  $x = 91$