



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

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

Fresh  
Math

## 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:  $x = 91$