

# Algebra I

## 3.5 Practice

### Writing Addition and Subtraction Equations

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

**Directions:** Decide whether each situation requires *addition* or *subtraction*. Write an addition or subtraction equation for each situation. Solve your equation using these steps:

4 steps to solve an addition/subtraction equation:

1. add or subtract from both sides of the equation
2. write the resulting equation (which includes a "0")
3. write and box your solution
4. re-write the original equation replacing the variable with your solution and check the result (it is true?)

1. Last year Tiger Woods paid \$506,024 in income taxes. If he pays \$601,200 this year, how much more will he pay this year than last year?

let  $x$  = tax increase

2. Last year, there were 953 students enrolled at Lake Shore High School. If the number of sophomores was 243, and the number of juniors was 219, and the number of seniors was 212, how many freshmen were there?

let  $x$  = # of freshman

3. After an increase of 22 cents, the price of a bag of peanut M&Ms™ rose to \$1.05. What was the original price?

let  $x$  = original price

4. A Cessna-172 pilot flew at an altitude of 3500 feet. If a Boeing-777 pilot flew at an altitude 25750 feet higher than the Cessna, what was the Boeing pilot's altitude?

let  $x$  = Boeing pilot's altitude

5. A drop of  $8^{\circ}$  Centigrade brought the temperature to  $54^{\circ}$  Centigrade. What was the original temperature?

let  $x$  = original temperature

6. How many boys are there in a marching band of 116 students if the number of girls is 64?

let  $x$  = # of boys

7. Mr. Hooper had 7 ice cream sundaes on his counter. When he returned several minutes later, there were only 5 ice cream sundaes. How many ice cream sundaes are missing?

let  $x$  = missing sundaes