Unit 4 – Lesson 1 Writing Equations Using Symbols		Name:	
		Date:	Period:
Focus Standard:	8.EE.C.7	infinitely many possibilities is th into simpler for	in one variable. of linear equations in one variable with one solution, solutions, or no solutions. Show which of these he case by successively transforming the given equation ms, until an equivalent equation of the form $x = a$, result (where a and b are different numbers).
		equations whos	ations with rational number coefficients, including e solutions require expanding expressions using the perty and collecting like terms.

Student Outcomes

- Students write mathematical statements using symbols to represent numbers.
- Students know that written statements can be written as more than one correct mathematical sentence.

Addition	Subtraction
Multiplication	Division

Exercises - Write each of the following statements using symbolic language.

1. The sum of four consecutive even integers is -28.

2. A number is four times larger than the square of half the number.

3. Steven has some money. If he spends \$9.00, then he will have 3/5 of the amount he started with.

4. The sum of a number squared and three less than twice the number is 129.

5. Miriam read a book with an unknown number of pages. The first week, she read five less than 13 of the pages. The second week, she read 171 more pages and finished the book. Write an equation that represents the total number of pages in the book.

Problem Set - Write each of the following statements using symbolic language.

1. Bruce bought two books. One book costs \$4.00 more than three times the other. Together, the two books cost him \$72.

2. Janet is three years older than her sister Julie. Janet's brother is eight years younger than their sister Julie. The sum of all of their ages is 55 years.

3. The sum of three consecutive integers is 1,623.

4. One number is six more than another number. The sum of their squares is 90.

5. When you add 18 to 1/4 of a number, you get the number itself.

6. When a fraction of 12 is taken away from 17, what remains exceeds one-third of seventeen by six.

7. The sum of two consecutive even integers divided by four is 189.5.

8. Subtract seven more than twice a number from the square of one-third of the number to get zero.

9. The sum of three consecutive integers is 42. Let *x* be the middle of the three integers. Transcribe the statement accordingly.