All of the mathematical statements in this lesson are equations.

Recall that an equation is a statement of equality between two expressions.

Developing equations from written statements forms an important basis for problem solving and is one of the most vital parts of algebra.

Throughout this module, there will be work with written statements and symbolic language. We will work first with simple expressions, then with equations that gradually increase in complexity, and finally with systems of equations (more than one equation at a time).

A whole number has the property that when square of half the number is subtracted from five times the number, we get the number itself.

let X = a whole number

$$5x - (.5x)^2 = x$$

Paulo has a certain amount of money. If he spende \$6.00, then he has

1/4 of the original amount left.

Let x = amount of money Paulo has

$$X-6=\frac{X}{4}$$

When a fraction of 57 is taken away from 57, what remains exceed 2/3

of 57 by 4. 2 of 57=3.57 let x=a fraction of 57

$$57 - \chi = \frac{2}{3}.57 + 4$$

The sum of three consecutive integers is 372

Let X = 15+ integer

Let X+1 = 2nd consecutive integer

Let X+1+1 = 3rd consecutive integer

Let X+1+1 = 372

The sum of three consecutive odd integers is 93.