

# **Translating Words into Expressions and Equations Video Lecture**

## **Section 1.2**

### **Course Learning Objective:**

**Translate words into algebraic expressions, equations, and inequalities.**

### **Weekly Learning Objectives:**

**Translate sentences into mathematical statements.**

# Translating Words Into Expressions and Equations

Key words to look for:

**Sum** = Add

**Difference** = Subtract

**Product** = Multiply

**Quotient** = Divide

Examples:

- 1) Eight times a number
- 2) A number subtracted from fourteen
- 3) The quotient of a number and twelve
- 4) Seven less than a number
- 5) The product of nine and five more than a number
- 6) Three less than the product of a number and 6

**SUBTRACTED FROM** and **LESS THAN**  
switch order around when translating

7) A number minus three equals one

8) The product of a number and three is six

9) Twelve divided by a number equals one third times that number

What is the difference between:

Three is less than the product of a number and six

Three less than the product of a number and six

**is =>**

**is less than =>**

**is less than or equal to =>**

**is greater than =>**

**is greater than or equal to =>**

Translate into a mathematical expression and combine like terms:

The sum of fourteen and eight times a number is subtracted from  
the number multiplied by five

