Section 2.2: Translating Phrases into Algebraic Expressions

Objectives

- Write algebraic expressions for word phrases.

Instruct

1. Different words or phrases are used to describe the operations of addition, subtraction, multiplication and division. List at least three different ways to describe each operation.

Addition	Subtraction	Multiplication	Division

**Keep in mind that addition and multiplication are commutative while subtraction and division are not. In other words, be very careful to *use the correct order* when working with subtraction and division.

2. Translate the following statements into algebraic expressions

a) Four more than a number.

b) Six less than twice a number.

c) The quotient of a number and six.

d) Three times the quantity of five less than x.

BONUS!!!   Please Translate the following English Phrases into Algebraic Expressions using x to represent the unknown.

a.   A number minus 5_____

b.   Five minus a number_____

c.   A number decreased by 6_____

d.   Six decreased by a number_____

e.   The difference between a number and 3_____

f.   The difference between 3 and a number_____

g.   Seven less than a number _____

h.   A number less than 7_____

i.   Eight subtracted from a number_____

j.   A number subtracted from 9_____

k.   Five times a number_____

l.   The product of three and a number_____

m.   Two-thirds of a number_____

n.   Thirteen multiplied by a number_____

o.   A number multiplied by thirteen_____

p.   Twice a number_____

q.   Twenty-five percent of a number_____

r.   A number divided by three_____

s.   The quotient of seven and a number_____

t.   The quotient of a number and seven_____

u.   The reciprocal of a number_____

v.   The sum of twice a number and six_____

w.   Twice the sum of a number and six_____

x.   Three times the sum of four and twice a number_____

y.   Nine subtracted from five times a number_____

z.   Eight times the sum of a number and twenty_____

aa.   Eight times a number increased by twenty_____