Example 1

Write a variable expression for the situation:

four more than Alyssa's flowers

Variable: Let a be the number of flowers Alyssa has.



The expression is: 4 + a

Example 2

Write a variable expression for the phrase:

three times a number decreased by five

Variable: Let n be the number.



Decreased by means subtract.

The expression is: 3n - 5

Evaluating Expressions

To evaluate an expression you replace the variables with a given value and then use order of operations to simplify the expression.

Example 3

Evaluate 3x + 6 if x = 4.

The sentence x = 4 gives you a value for the variable. The 3 and the x are written side by side indicating multiplication.

Write the expression: 3x + 6Replace the **x** with 4: = 3(4) + 6Simplify using order of operations: = 12 + 6= 18

Example 4

Evaluate 7(m-n) + 3m if m = 12 and n = 4.

Write the expression: 7(m - n) + 3m

Replace m with 12 and n with 4: = 7((12) - (4)) + 3(12)

Simplify using order of operations: = 7(8) + 3(12)

= 56 + 36

= 92