## **Evaluating Expressions Using Variables**

A **variable** is a value that stands for an unknown. In the expression 3x + 1, x is the variable.

To evaluate an expression with a variable, use **substitution** to replace the variable with a number. Then use the order of operations to simplify.

Consider the expression 3x + 1. You can evaluate this expression for different values of x. Evaluate 3x + 1 for:

Evaluate each expression for the three different values of the variable.

Evaluate 60 – *y* for:

$$y = 30$$

Evaluate 4h - 6 for:

$$h = 3$$
  $h = 7$ 

Evaluate 14*k* for:

$$k = 3$$

Evaluate  $10a \div 5$  for:

$$a = 5$$
  $a = 6$ 

$$\alpha = 6$$

$$a = 9$$

Evaluate 4(p + 6) for:

Evaluate  $72 \div v^2$  for:

$$v = 2$$