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## Evaluating Expressions Using Variables

A variable is a value that stands for an unknown. In the expression $3 x+1, x$ 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 $3 x+1$. You can evaluate this expression for different values of $x$. Evaluate $3 x+1$ for:
$x=2$
$x=4$
$x=5$
3(2) +1
$3(4)+1$
3(5) +1
$6+1$
7
$12+1$
$15+1$
16

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

Evaluate 60 - $y$ for:

$$
y=15 \quad y=30 \quad y=48
$$

Evaluate $4 h-6$ for:

$$
h=3 \quad h=7 \quad h=11
$$

Evaluate $10 a \div 5$ for:

$$
a=5 \quad a=6 \quad a=9
$$

Evaluate $14 k$ for:

$$
k=3 \quad k=8 \quad k=10
$$

Evaluate $4(p+6)$ for:

$$
p=1 \quad p=6 \quad p=12
$$

Evaluate $72 \div v^{2}$ for:

$$
v=2 \quad v=3 \quad v=6
$$

