

Evaluating Expressions Using Variables

What is a variable? A variable stands for a value that isn't known.

Example: $5 \times r$

In this example, r stands for a value. Until you know what it stands for, you cannot evaluate this expression.

So, if $r = 10$, the value of this expression would be 50 because $5 \times 10 = 50$.

If $r = 2$, what would the value be? If you said 10, you would be right!

Evaluate the expressions below using different values for the variable. The first one has been completed for you. Remember to pay attention to the order of operations.

1. $31k$ (same as $31 \times k$)

if $k = 4$

124

if $k = 10$

310

if $k = 2$

62

2. $4(p + 6) - p$

if $p = 1$

if $p = 10$

if $p = 6$

3. $9^2 - (f - 1)$

if $f = 1$

if $f = 2$

if $f = 20$

4. $3r^2 + 4$

if $r = 2$

if $r = 5$

if $r = 10$
