

Arithmetic Expressions and Variables in R: Takeaways

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Syntax

- Exponentiation: `3^5`
- Integer Division: `17 %/%5`
- Modulo: `17 %%5`

VARIABLE USES

- Assigning a value to a variable:

```
value_1 <- 50  
value_2 <- 5L
```

- Assigning the result of a calculation to a variable:

```
total <- 5 + 5  
average <- (5 + 5 + 5) / 3
```

- Performing calculations using variable names:

```
value_1 + value_2
```

BUILT-IN FUNCTIONS

- Data type of a variable:

```
class(vector_1)
```

Concepts

- R uses the [Operator Priority](#) rules from mathematics when evaluating expressions: parentheses are calculated first, then exponentiation, then division and multiplication, and finally, addition and subtraction.

- R uses the [Data type transformation](#) rules to determine the data type of an expression.
 - Operations between values of the **same data type** yield **that same data type**.
 - Operations between values of **different data types** yield in **the highest data type**.

From highest to lowest, the data types are ranked:

Numeric

,

Integer

, and

Logical

.

- There are some rules you need to follow when naming variables in R:

Resources

- [Notes on naming variables in R](#)



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