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Arithmetic Operators

What is an arithmetic operator?

Arithmetic operators are used to perform arithmetic operations on numeric data.

Addition

In PHP, the plus symbol + is used for addition. A simple example:

```
<? Php

$total = 10 + 2;

echo $total;

?>
```

Here, we create a \$total variable that will contain the result of an addition. Then we display the result (here 12).

To add the variable content, simply separate each variable name with a plus symbol. Try this new script:

```
<? Php
  $my_number1 = 10;
  $my_number2 = 2;

$total = $my_number1 + $my_number2;
  echo $total;
?>
```

In this script, we added 2 variables that both contain a number. A 3rd variable is declared \$total. This variable will contain the result of adding the first two variables.

Thanks to the symbol +, PHP will add the two values.

Subtraction

In PHP, the minus symbol - is used for subtraction. We use the same example as for the addition:

```
<? Php
  $my_number1 = 10;
  my_number2 = 2;
  $total = $my_number1 - $my_number2;
  echo $total;
?>
Here, the result will be 8.
We can also mix subtraction and addition:
<? Php
  my_number1 = 10;
  $my_number2 = 2;
  my_number3 = 5;
           $total = $my_number1 - $my_number2 +
                $my_number3;
  echo $total;
?>
You can also use parentheses in your additions / subtractions or any other
arithmetic operation.
$total = ($my_number1 - $my_number2) +
          $my_number3; // Returns13
$total = $my_number1 - ($my_number2 +
           $my_number3); // Return 3
```

Multiplication

In PHP, the Asterixsymbol * is used for subtraction.

```
For example:
<? Php
$my_number1 = 10;
$my_number2 = 2;

$total = $my_number1 * $my_number2;
echo $total; // Return 20
?>
```

Division

In PHP, to divide a number by another, use the symbol /:

```
<? Php
$my_number1 = 10;
$my_number2 = 2;

$total = $my_number1 / $my_number2;
echo $total; // Return 5
?>
```

Modulo

The rest of a division is called the modulo.

For example, when we divide 10 by 2, the rest of the division is 0. The result of 10 modulo 2 is therefore 0.

When we divide 10 by 3, 3 * 3 = 9 and the rest of the division is 1. The result of 10 modulo 3 is 1.

In PHP, to get the modulo, use the symbol%:

```
<? php
$my_number1 = 10;
$my_number2 = 2;

$total = $my_number1% $my_number2;
echo $total; // Returns 0
?>
```

Easier way to write operations

In PHP, it's possible to write those operations in a easy way:

Increment

```
In PHP, you can increment a variable in a easy way :
```

```
<?php
    // Those three lines are equivalent :
    $x+=1;
    $x++;
    ++$x;

// You can do the opposite by typing :
    $x--;</pre>
```