# Department of Education REGION III SCHOOLS DIVISION OFFICE OF NUEVA ECIJA

# LEARNING ACTIVITY SHEET SPECIAL PROGRAM IN ICT 9 BASIC

**PROGRAMMING 9**Third Quarter, Week 2

Name of Learner:	Date:	
Grade Level /Section:		

#### **JAVA OPERATOR PRECEDENCE**

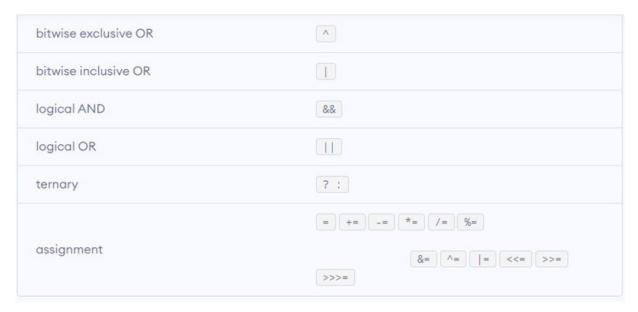
## **Background Information for Learners**

Operator precedence determines the order in which the operators in an expression are evaluated.

#### **Operator Precedence Table**

The table below lists the precedence of operators in Java; higher it appears in the table, the higher its precedence.

Java Operator Precedence			
Operators	Precedence		
postfix increment and decrement	++		
prefix increment and decrement, and unary	++ + - ~ !		
multiplicative	* / %		
additive	+ -		
shift	<< >>>>>		
relational	< > <= >= instanceof		
equality	== !=		
bitwise AND	&		



## **Example:** Operator Precedencce

```
class Precedence {
   public static void main(String[] args) {

int a = 10, b = 5, c = 1, result;
   result = a-++c-++b;

System.out.println(result);
}
}
```

#### Output:

2

The operator precedence of prefix increment (++) is higher than that of subtraction operator (-). Hence,

```
result = a-++c-++b;
```

is equivalent to

```
result = a-(++c)-(++b);
```

or

```
result = 10-(2)-(6);
```

When dealing with multiple operators and operands in a single expression, you can use parentheses like in the above example for clarity. The expression inside the parentheses is evaluated first.

# **Learning Competency with Code**

Use operator precedence to assess a Java expression.

# **Exercises/Activities**

#### **ACTIVITY 1**

Direction: Draw the precedence of the following operators inside the box.

<ol> <li>Logical AND</li> <li>Postfix increment and decrement</li> <li>Equality</li> <li>Relational</li> <li>Multiplicative</li> </ol>			
ACTIVITY 2 Direction: Analyze the code below and write	e your answer inside this l	box:	
<pre>class Precedence {     public static void main(String[]) int a = 35, b = 10, c = 7, result; result = a-++c-++b; System.out.println(result); } }</pre>	args) {		
Write your answer here:			

Why is it important to know and understand operator precedence in java programming?				

#### **References for Learners**

Reflection

https://www.programiz.com/java-programming/operator-precedence

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