

Lab 1.02 - Using the Interpreter ## Part 1 Using the interpreter, type in the expressions below. Copy and paste the output into the output column. If the result is unexpected, note that in the third column. ### Section 1 |

Input	**Output**	**Did it do something unexpected?**
a `5 + 2 * 2`	14	
b `2/3`	0.6666666666666666	
c `2.0 * 1.5`	3.0	
d `(2 + 3) * 10`	50	
e `5.0 // 2`	2.5	
f `5.0 % 2`	1.0	

Section 2 |

Input	**Output**	**Did it do something unexpected?**
a `a`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a NameError: name 'a' is not defined	
b `a`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a NameError: name 'a' is not defined	

Section 3 |

Input	**Output**	**Did it do something unexpected?**
a `a + b`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a + b NameError: name 'a' is not defined	
b `a + b`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a + b NameError: name 'a' is not defined	

Section 4 |

Input	**Output**	**Did it do something unexpected?**
a `a * b`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a * b NameError: name 'a' is not defined	
b `a * 2`	Traceback (most recent call last): File "<ipython-input-1-1"> line 1, in <module> a * 2 NameError: name 'a' is not defined	

Part 2 ### Before going to the IDE 1. For each item, predict the data type of the result and enter into the "String/Integer/Float" column. 2. Next, predict the value of the result for each item and enter into it into the "Prediction of Result" column. |

Expression	**String/Integer/Float**	**Prediction of Result**	**Interpreter Result**
a `10 * 2`	integer	20	20
b `.5 * 2`	float	1.0	1.0
c `10/2`	float	5.0	5.0
d `10%2`	integer	0	0
e `2 ** 3`	integer	8	8
f `(2+5)*3`	integer	21	21
g `2 + 5 * 3`	integer	17	17
h `ab + 12 + 3`	string	ab15	ab15
i `x`	string	x	x
j `ab + cd`	string	abcd	abcd
k `abc * 2`	string	abc2	abc2
l `1*2 + 2 * 3`	integer	8	8
m `1 * 2 + 3 * 2`	integer	8	8
n `A ** 2`	string	AA	AA
o `bc % 2`	integer	0	0
p `bc / 2`	float	1.5	1.5

Now go to the IDE Use the interpreter to evaluate the expressions, write down results in the "Interpreter Result" column.