Comparison between Function and Module

Examples: Calculate weekly gross pay

Module	Module and Function
//Declare a global constant	//Declare a global constant
Constant Real PAY_RATE = 8.5	Constant Real PAY_RATE = 8.5
Module main()	Module main()
//Declare variables	//Declare variables
Declare Real hours	Declare Real hours
Declare Real grossPay	Declare Real grossPay
Call getInput(hours)	Set hours = getInput()
Call calcuPay(hours, grossPay)	Set grossPay = calcuPay(hours)
Call output(hours, grossPay)	Call output(hours, grossPay)
End Module	End Module
	No need to pass an
//module for input; need a pass-	//function for input argument by reference
//by-reference parameter	Function Real getInput ()
Module getInput (Real Ref hours)	Declare Real hours
Display "Please enter hours: "	Display "Please enter hours: "
Input hours	Input hours
End Module	Return hours A returned value is either an input value
	End Function by the user, or a
	result of processing.
//module for calculation; need a pass-	//function for calculation
//by-reference parameter	Function Real calcuPay (Real hours)
Module calcuPay (Real hours, Real	Declare Real grossPay
Ref grossPay)	Set grossPay = hours * PAY_RATE
Set grossPay = hours * PAY_RATE	Return grossPay
End Module	End Function A function only
	returns ONE value
//module for output	//module for output
Module output(Real h, Real gp)	Module output(Real h, Real gp)
Display "Hours worked: ", h	Display "Hours worked: ", h
Display "Pay Rate: ", PAY_RATE	Display "Pay Rate: ", PAY_RATE
Display "Total Pay: ", gp	Display "Total Pay: ", gp
End Module	End Module
	<u>'</u>
Both solutions have the	
same output	t() module