# How Do I Use Formulae For Basic Calculation Inside My DataGrid?

In this lesson we will see how to parameter a datagrid with DGH for doing basic calculation.

#### Creating a Datagrid With Three Columns and Opening the Formula Topic

O O Datagrid with Formulae & Grand Total *	i 🛑 🔿 🔵		Column Builder - DataGrid 1	
	Property	Value	Always Hide Invisibles Columns	
	Columns		Columns Builder Preview	Grid Iconize
••	+ Column Header Parameters			
	Column Header Controls		Col1 Col2 Col3	+
	Cell Content			
	Format			-
	🖃 Formula			
	Formula		Column Content Row	
	Grand Total Function		Column Content Row	
	🗉 Classic Objects			
••	+ Widgets Objects			
	Custom Objects			
	Behaviors			
	-			
			Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred Revert	Apply

First, create a datagrid and open DGH, then inside the column editor create three columns and go to the Formula topic.

#### Inputing A Formula

O O Datagrid with Formulae & Grand Total *			Column Builder - DataGrid 1
	Property	Value	Always Hide Invisibles Columns
	+ Columns		Columns Builder Preview Grid Iconize
• • • • • • • • • • • • • • • • • • •	Column Header Parameters		
	Column Header Controls		Col1 Col2 Col3
	+ Cell Content		
	+ Format		
	🖃 Formula		
	Formula	[Col1] * [Col2]	
	Grand Total Function	0	Column Content Row
	+ Classic Objects		
•	Widgets Objects		
	+ Custom Objects		
	Behaviors		
			Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred Revert Apply

Inside the formula value, input [Col1] \* [Col2]. The supported syntax suppose you place the column names inside brackets. Supported operators in formulae are: \* / + -

## Testing the Formula Using the Columns Builder Preview

O O Datagrid with Formulae & Grand Total *			Column Builder - DataGrid 1
	Property	Value	Always Hide Invisibles Columns
	Columns		Columns Builder Preview Grid Iconize
• • • • • • • • • • • • • • • • • • •	Column Header Parameters		
	Column Header Controls		Col1 Col2 Col3
	+ Cell Content		15 4 60
	+ Format		
•	Formula		
	Formula	[Col1] * [Col2]	
	Grand Total Function	0	▶ Column Content Row 🗘
	+ Classic Objects		
•	Widgets Objects		
	+ Custom Objects		
	+ Behaviors		
			Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred Revert Apply
			Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred Revert Apply

Now the formula is inputed, we can test it immediately inside the "**Columns Builder Preview**", before to apply the change to the final datagrid.

## Locking the Column 3 Content

O O Datagrid with Formulae & Grand Total *			Column Builder - DataGrid 1	
	Property	Value	Always Hide Invisibles Columns	
	Columns		Columns Builder Preview	Grid Iconize
******	Name	Col3		
	Label		Col1 Col2 Col3	+
	Width	100	15 4 60	
	Min Width	40		_
1	Max Width	1000		
	Resizable		Column Content Row	
	Header Alignment	Left ᅌ	Column Content	
	Content Alignment	Left ᅌ		
· · · ·	ald in the second s			
	Editable	2		
	Sort Direction	Ascending 📀		
	Sort Is Case Sensitive			
	Sort Type	Text ᅌ		
	Tooltip			
	Column Header Parameters			
	Column Header Controls			
	Cell Content			
	Format			
	E Formula		Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred	Revert Apply
			and the second	

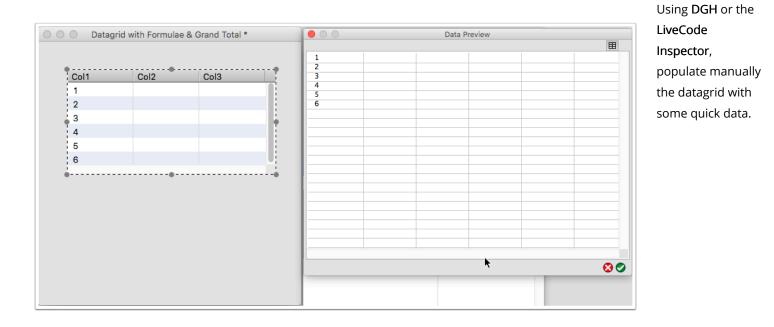
The third column will be the result of a calculation. We are setting its editable property to false to prevent any manual change.

## Applying the Change to the Final Datagrid

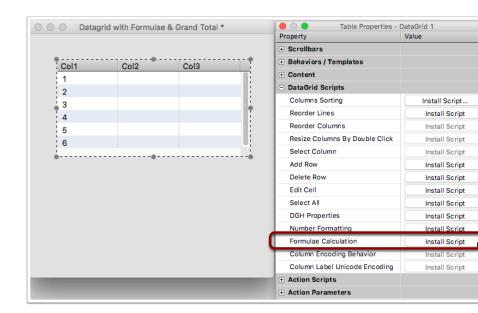
O O Datagrid with Formulae & Grand Total *			Column Builder - DataGrid 1	
	Property	Value	Always Hide Invisibles Columns	i 🗆
	Columns		Columns Builder Preview	Grid Iconize
••	Name	Col3		
	Label		Col1 Col2 Col3	+
	Width	100	15 4 60	
	Min Width	40		_
1	Max Width	1000		
	Resizable		Column Content Row	
	Header Alignment	Left 📀	Column Content Row	
	Content Alignment	Left ᅌ		
	Visible			
	Editable			
	Sort Direction	Ascending ᅌ		
	Sort Is Case Sensitive	0		
	Sort Type	Text ᅌ		
	Tooltip			
	Column Header Parameters			
	Column Header Controls			
	Cell Content			
	Format			
	- Formula		Data Grid Helper - © 2018 ASG Inc - Licensed to: Unregistred Revert	Apply

Click onto the apply button to apply the change done in the builder to the targeted datagrid.

#### Populating the Datagrid



#### Installing the Formulae Calculation Script Inside the Datagrid Group



The next step for having the formula working is to install the ready to use script "Formulae Calculation" inside the datagrid group. This script is located inside the "DataGrid scripts" topic of DGH.

So, quit the **column editor** by clicking the "Grid" button, open the DataGrid scripts topic and, then click the "Install Script" for "Formulae Calculation" to install the script.

> The required scripts are installed. The "Install Script" is disabled for reflecting the installation.

) 🔘 Datag		e & Grand Total *	Property	Value	
			Scrollbars		
Col1	Col2	Col3	 Behaviors / Templates		
1	0012	0015	Content		
2			DataGrid Scripts		
3			Columns Sorting	Install Script	
4			Reorder Lines	Install Script	
5			Reorder Columns	Install Script	
6			Resize Columns By Double Click	Install Script	
			Select Column	Install Script	
	•		Add Row	Install Script	
			Delete Row	Install Script	
			Edit Cell	Install Script	
			Select All	Install Script	
			DGH Properties	Install Script	
			Number Formatting	Install Script	
			Formulae Calculation	Install Script	
			Column Encoding Behavior	Install Script	Required handlers already existing in the script
			Column Label Unicode Encoding	Install Script	
			+ Action Scripts		
			Action Parameters		

## Testing the Formula

	1	Col3 1
1 2	2	4
3	3	9
4	4	16
5	5	25
6	6 I	36

We can now test the result of our efforts by adding numeric values in column 2, and see all is working as expected.