Mathematical Calculations
Formulas: Simple Math

PrintShop Mail (PSM) can perform mathematical calculations using the Expression Builder window.
This document will provide basic formula samples.

Why would I want to create a math formula?

To display the result of a calculation. Maybe the "result" of a calculation or the "Total" field is NOT included in the database and you will need to generate the "result" yourself.

Common applications are:
- billing statements or invoices (total amount)
- mortgage rate advertisements (% difference between current rate & proposed new rate)
- any math calculation

PSM uses the following math operators:
(+) plus sign for addition   (-) minus sign for subtraction
(/) forward slash for division   (*) asterisk for multiplication

Note:
* Database fields used for math calculations must be "text" formatted to have no numerical value.
* Calculations are limited to the fields within one (1) record.

VAL function will be used in the formulas to give value to the numerical data.
VAL - converts character strings into number values.

How do I create a text variable to get to the Expression Builder window?

Draw a text box > type @text@ (any characters between @ signs will make a variable) > deselect the text box.
Mac: Window > Show Variables > click 2x on "text"
Win: Window > Variables > click 2x on "text"
VAL - converts character strings into number values.

Below are sample formulas:

Sample Database	Field 1	Field 2	Field 3	Field 4
	1000	2000	3000	4000

	Calculation	Formula	Result
Addition (+)	1) Add (+) two fields together	VAL ([Field1]) + VAL ([Field2])	3000
	2) "Static" number plus (+) Field1	VAL ("1000") + VAL ([Field1])	2000
	3) Add two fields and subtract 100	VAL ([Field1]) + VAL ([Field3]) - 100	3900
Subtraction (-)	1) Subtract (-) a field from another field	VAL ([Field2]) - VAL ([Field1])	1000
	2) "Static" number minus (-) Field1	VAL ("3000") - VAL ([Field1])	2000
	3) "Static" number minus (-) Field1 + 250	VAL ("3000") - VAL ([Field1]) + 250	2250
Division (/)	1) Divide (/) two fields	VAL ([Field2]) / VAL ([Field1])	2
	2) "Static" number divide (/) by Field1	VAL ("3000") / (VAL ([Field1]))	3
	3) "Static" number (/) by Field1 multiply (*) by 5	VAL ("3000") / VAL ([Field1]) * 5	15
Multiplication (/)	1) Multiply (*) two fields	VAL ([Field1]) * VAL ([Field2])	200000
	2) "Static" number multiply (*) by Field1	VAL ("8") * VAL ([Field1])	8000
	3) Field1 multiply (*) by 1.5	VAL ([Field1]) * 1.5	1500