

Creating a Custom Wall Measurement

The screenshot shows the 'Custom Measurement Editor' window. The 'Custom Measurement Name' is 'Wall Measurement' and the 'Base Measurement' is 'Length'. The 'Line Item Description' is 'Wall Area'. The 'Main Formula' field contains 'Total Length * Height Question'. The 'Measured Quantities to display' section has 'Total Length' checked. The 'Attached Custom Measurements' section lists 'Wall Volume CYDs' and 'Wall Area 2 Sided'. The 'Result Units' are set to 'ft'. The 'Calculator Functions' section shows the multiplication (*) button. The 'User Entered Variables' section has 'Height Question' selected. The 'Constant Values' section lists unit conversions. The 'Prompt' field contains 'Height of Wall in feet [10 default]'. Annotations with red lines point to various parts of the interface: 'Main Formula' points to the formula field; 'Adds Measurement type to Main Formula' points to the 'Click to USE in formula' button; 'Output Units' points to the 'Result Units' dropdown; 'Calculator Functions' points to the calculator keypad; 'Attached a second formula to the Main formula' points to the 'Add' button in the 'Attached Custom Measurements' section; 'Adds the highlighted question to the Main Formula' points to the 'Use' button in the 'User Entered Variables' section; and 'Create a question prompt' points to the 'Prompt' field.

Create a Custom Formula to determine the Area and Volume of a Wall

- 1) In the "Measured Quantities to Display" section select "Total Length" and then select "Click to Use in formula"
 This will prompt the user to enter a Length Measurement onscreen
 This will add a Linear foot measurement to the output
 This will add a Linear foot Total to the Main formula
- 2) In the "Calculator Functions" section select "Multiply" (*)
- 3) In the "User Entered Variables" select "Add"
 This will add a question prompt for the user
- 4) Name the Prompt "Height Question"
- 5) Next, in the "Enter the Prompt for Height Question" dialog box type "Height of wall in feet"
- 6) Next, enter a standard height
- 7) Next, in the "User Entered Variables" section highlight "Height Question" and select "Use"
 This will alter the Main formula to output the Result of the Linear Foot Measurement multiplied by the result of the user entered information to the question "Height of wall in feet"
- 8) Next, in the "Attached Custom Measurements" select "Add"
- 9) Follow the same procedure as above to add additional formulas to calculate:
 - The total area of both sides
 - The volume of the wall