


# HW 1 - Masonry

Due: Friday, February 24th at 11:59 PM

Some contracting work is coming down the pipeline; there are new walls to construct! It's your job to provide some project estimations to the resource management team. They need to know how much material they will need, how long the project might take, and how much the project might cost in total. Because you are an amazing coder, you're going to write a tool to calculate these things for any wall you might have to build; write this one program and you'll never have to do wall-based calculations again!

This is the interface I made, yours does not have to look like mine. Feel free to make it more colorful too but not unreadable and no garish colors.



Masonry Estimations	
<b>Dimensions</b>	<b>Materials</b>
Length <input type="text"/>	Volume of 1 brick <input type="text"/>
Thickness <input type="text"/>	Cost per brick <input type="text"/>
Height <input type="text"/>	Seconds per brick <input type="text"/>
<input type="button" value="Clear"/> <input type="button" value="Calculate"/>	
<b>Results</b>	
Total Volume <input type="text"/>	
# of Bricks <input type="text"/>	
Total Cost <input type="text"/>	
Total Time <input type="text"/>	

Your program should accept decimals where appropriate. It should not crash on invalid input. It should output the estimate in the correct format where appropriate (currency, time in years).

Here are some test numbers I made up for you to try out: 5280000 feet long, 47 feet tall, 0.83 feet thick. I looked up the volume of a cinderblock (~0.6 feet).

Try to break your program. What happens if someone doesn't fill in a box? What happens if they type "potato" instead of what they are supposed to type? What happens if you have a zero volume brick?