Subject: Is my math right?
Posted by Dangus on Tue, 18 Feb 2003 20:01:10 GMT
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Hi, I'm doing a bass horn project as some of you may know, and currently I'm calculating the back volume. I am using the first formula found here: Horn Design. Under the second called Compression Chambers. Whenever I use this formula I come up with a negative number. In this particular case, with the following stats:Fs(28.7) * Qts(0.29) = 8.323 / Fc(35) = 0.2378 - 1 = -0.7622Well at this point that doesn't work.... So if I do what the formula says, I'll divide the Vas(3.56cu. ft.) by -0.7622 I get -4.761(roughly), which obviously doesn't work right. So, if I were to add 1.5244 to -0.7622(same as just changing it positive), and multiply, the result would be 4.761 instead. Would that be the correct size then for that driver? Or am I totally missing something?

Subject: Re: Is my math right?
Posted by bsuhy on Tue, 18 Feb 2003 23:17:15 GMT
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Yes, I have spotted your error.You dont divide 8.323 by FC, you divide FC by 8.323.I think this will get you to where you need to be.35/8.323 = 4.2052blahblahblah - 1 = 3.2052If VAS is 3.56, then your VB is about 1.11069.Hope this helps.Brian

Subject: Re: Is my math right?
Posted by Dangus on Wed, 19 Feb 2003 01:15:24 GMT
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Aha! Such a simple error, and one I was making repeatedly! Thank you for your help sir!