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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:  $F_s(28.7) * Q_{ts}(0.29) = 8.323 / F_c(35) = 0.2378 - 1 = -0.7622$  Well at this point that doesn't work.... So if I do what the formula says, I'll divide the  $V_{as}(3.56 \text{ cu. ft.})$  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?

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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 don't divide  $8.323$  by  $FC$ , you divide  $FC$  by  $8.323$ . I think this will get you to where you need to be.  $35/8.323 = 4.2052$  blahblahblah  $- 1 = 3.2052$  If  $V_{AS}$  is  $3.56$ , then your  $V_B$  is about  $1.11069$ . Hope this helps. Brian

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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!

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