

Re: make 100 by using 1, 7, 7, 7, 7

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- *From:* Kira Yamato <kirakun@xxxxxxxxxxxxxx>
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On 2007-11-13 13:51:55 -0500, Kira Yamato <kirakun@xxxxxxxxxxxxxx> said:

On 2007-11-13 13:22:13 -0500, Robert Israel
<israel@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> said:

"Benjamin A. Bartsch" <benjamin.a.bartsch@xxxxxxxxxx> writes:

dangerousgam...@xxxxxxxxxx schrieb:

So, using only +, -, x, /, and parentheses,
and ONLY these numbers:

1, 7, 7, 7, 7

how can you make 100? Is there more than
one solution?

--> $(1/7+7)*(7+7)$

Benjamin

Yes, and that's the only solution (up to commutativity).

I'm very curious how you concluded this. Was it by a program that tests through all possible combinations?

I tried to write a program too, but I stop when I couldn't quickly find a way to list out all possible trees with 7 leaves.

Sorry, I meant 5 leaves. My idea was that each expression can be represented as a tree where each internal node is one of four operators +, -, *, / and the leaves are one of the number 1, 7, 7, 7, 7.

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-kira

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