

Re: The rational number 5 and the real number 5

Source: <http://sci.tech-archive.net/Archive/sci.logic/2008-03/msg00395.html>

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 - *Date:* Sun, 9 Mar 2008 04:02:48 +1100
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David

Well, I still don't understand how computing the floor of a rational is different from computing the floor of a rational real in the way you claim. It's not the main point of the thread though, I guess.

No, but its the part that caught my eye as well.

I can't see any difference in the floor function, which essentially maps \mathbb{Q} or \mathbb{R} onto \mathbb{N} .

I can see a difference with a function I might call $\text{rat}(x)$, which maps x onto the lowest rational less than or equal to x ; this defined over \mathbb{Q} but not over \mathbb{R} . (It maps $\mathbb{Q} \rightarrow \mathbb{Q}$ but not $\mathbb{R} \rightarrow \mathbb{Q}$). That seems a different thing though.

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