

Probability of picking a positive rational number at random

Source: <http://sci.tech-archive.net/Archive/sci.math/2008-03/msg01945.html>

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 - *Date:* Thu, 13 Mar 2008 13:10:57 -0700 (PDT)
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From my understanding, the probability of picking a positive rational number at random which is <1 is 50%, and also the probability that this number >1 is also 50%.

What is the probability that the number is $<1/2$. What about <2 ?
How about $<1/3$ or <3 ?

Any thoughts are appreciated.
Thanks

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