

**Re: \*\*\*\*\* TRY THESE SCI.MATH \*\*\*\*\***

**Source:** <http://sci.tech-archive.net/Archive/sci.math/2005-01/5985.html>

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**From:** The Ghost In The Machine (*ewill\_at\_sirius.athghost7038suus.net*)

**Date:** 01/20/05

Date: Thu, 20 Jan 2005 15:00:19 GMT

In sci.logic, |—|erc

<h@r.c>

wrote

on Thu, 20 Jan 2005 14:11:30 +1000

<358paiF4ki694U1@individual.net>:

> *Take any reasonable interpretation of the terms you can to get an answer where possible.*

> *If there is ambiguity, state all possible interpretations and answer each.*

>

>

>

> *"A random real number will be on a computables list to an infinite number of digits" True / False / Other*

Probability 0.00%.

> \_\_\_\_\_

>

>

> *"All finite subsequences of a random real number will be on a computables list" True / False / Other*

Probability 0.00%.

> \_\_\_\_\_

>

>

> *"All digits of a random real number are covered in all finite subsequences of that number" True / False / Other*

Reformulate.

> \_\_\_\_\_

>

>

> *"If you have the list of computables, a random real number can*

> *be on it to an infinite number of digits, and yet not be on*

> *he list" True / False / Other*

True as phrased. (Example: S\_3 and 1/3, TX\_10 and any q whose denominator has a prime factor other than 2 or 5)

sci.math: Re: \*\*\*\*\* TRY THESE SCI.MATH \*\*\*\*\*

> \_\_\_\_\_  
>  
>  
> *How many digits of a random sequence have the prefix up to that digit  
> occur on a member of any complete computable number list?*  
>  
> *Random Sequence =*  
> <593738.....>  
> |<--- *How many of these digits satisfy the question? --->|  
>  
> *UTM(row, col) mod 10*  
> 1 <23424.....>  
> 2 <54434.....>  
> 3 <59373.....>*

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