The Measuring Numbers

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What is the distance between 0 and 1?

What number comes directly after 0?

What number comes directly before 1?

$$\bigcap \overline{Q}$$

$$1 \times 0.999... = 0.999...$$
 $\Rightarrow 10 \times 0.999... = 9.999...$
 $\Rightarrow 9 \times 0.999... = 9.000...$
 $\Rightarrow 1 \times 0.999... = 1.000...$

0.999... = 1

\mathbb{R}

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\mathbb{N} \leftrightarrow \mathbb{R}
       \leftrightarrow 43.17235759...
       \leftrightarrow 3.19535351...
               209.000000000...
       \leftrightarrow 0.12345678...
       \leftrightarrow
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0.2015...

Computer programs are countable.

Not all numbers are computable.